

# 2018 Operating Budget

## Minneapolis-St. Paul Metropolitan Airports Commission



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## Mission

Connecting you to your world

## Vision

Providing your best airport experience

## Values

- Our Employees
- Innovation and Excellence
- Commitment to the Community and the Environment
- Integrity
- Fiscal Responsibility
- Teamwork



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## **Executive Summary**

December 29, 2017

To The Public:

We are pleased to present the 2018 Metropolitan Airports Commission (Commission) Budget which was adopted by the Board of Commissioners on December 18, 2017. Total Operating Revenue for 2018 is projected to be \$365,845,596 and Operating Expense is \$188,997,053, excluding depreciation and noise amortization. Non-operating expenses, including non-operating revenue, are budgeted to be \$110,287,523. The approved 2018 budget results in \$66,561,021 of Net Revenues Available for Designation.

The 2018 budget process commenced in May 2017. Some of the key short-term issues faced by the Commission in developing the overall targets for the 2018 Operating Budget included:

- The impact of Transportation Network Companies (TNCs) on the Commission's parking and auto rental revenues
- Changes in the state of the economy and the airline industry in 2017
- The preparation of the MAC's systems of airports for Super Bowl LII in February 2018

Details on how each of these critical issues were addressed in our development of the budget are noted later in the Fund Overview.

Imbedded in this discussion is our Mission Statement and Vision Statement.

Mission Statement: Connecting you to your world

Vision Statement: Providing your best airport experience

#### Budget Targets

As a result of the key issues, the Commission identified four targets that were to be used in developing the 2018 Operating Budget. These targets and their respective budget results are indicated below.

Target 1: Maintain a Coverage Ratio of 2.4x on Senior Airport Revenue Bonds and an overall Coverage of 1.4x (with transfer) Result: 4.44x Senior and 2.04x Total Coverage (with transfer) Target 2: Maintain a Six Month Reserve in the Operating Fund **Result:** A transfer of \$4.1 million will be made to the fund on 1/2/18. Target 3: Airline Cost/Enplaned Passenger will be in the lower one-third of large hub airports. The Commission tied for fifth out of 28 large hub airports surveyed. Result: Target 4: The budget shall have the financial resources to operate the MAC's system of airports, meet its debt service obligations, and fund its reserves and capital requirements of the Commission.

**Result:** The budget forecasts \$66.6 million in Net Revenues available for designation.

The remainder of this message will discuss:

- Fund Overview (Overall, Operating, Construction, and Debt)
- Budget Development
- Organizational Strategic Plan
- Goals and Objectives
- GFOA Budget Award
- Acknowledgement
- Other Awards

#### Fund Overview

The Commission is accounted for as an Enterprise Fund. For internal purposes, three funds are maintained. Each fund relates to a specific function: Operating Fund (Budget – operations of the airport), Construction Fund (Budget – Capital Improvement Program), and Debt Service Fund (Debt). The Operating Fund reserve is set by the Commission. Based on current policy, that reserve amount needs to be equivalent to six months of operating expenses (excluding depreciation and noise amortization). Transfers from the Operating Fund to the Debt Fund are made in June and December of each year to make debt service payments and to ensure that the respective debt service reserve accounts are fully funded. At the end of the year, after all operating expenses and debt service have been funded, any balance not designated is typically transferred to the Construction Fund.

The table below shows a consolidated schedule of revenue and expenses for all funds. Descriptions and key issues for each of the three funds follow the summary table.

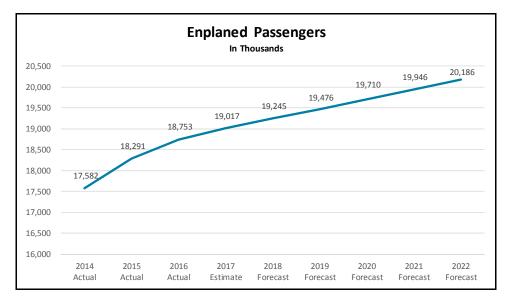
#### Summary Fund Table

Consolidated Enterprise Fund (\$ = 000)	2016 Actual	2017 Estimate	2017 Budget	2018 Budget	2019 Projection	2020 Projection
(\$ - 000) Sources All Funds	Actual	<u>Estimate</u>	Buuger	Budget	Frojection	Frojection
Total Beginning All Fund Balances <sup>(1)</sup>	\$ 729,764	¢ 1 025 592	\$ 1,094,487	¢ 1 007 459	\$ 908,009	\$ 869,96
Operating Fund Revenues	φ 129,104	φ 1,035,562	φ 1,094,407	φ 1,027,430	φ 906,009	\$ 609,90
	110 650	116 776	116 462	101 011	106 770	100.00
Airline Rates & Charges Concessions	112,653 160,691	116,776 171,504	116,463 173,394	121,311 175,495	126,770	128,29 190,81
	,	,	,	,	178,829	,
Other Operating Revenues	65,588	66,848	65,250	69,040	70,628	72,25
Interest Earnings	4,860	6,350	6,250	6,436	6,500	6,55
Other & Self-Liquating Revenue	4,576	4,654	4,759	4,902	5,200	5,40
Transfers in Equipment Financing	3,194	3,779	3,779	3,465	4,000	4,00
Construction Fund Revenues	70.007	70.045				75.04
PFC Funding	72,207	72,345	73,276	74,155	75,045	75,94
Federal & State Grants	17,473	11,431	3,025	9,600	14,100	12,05
Interest Earnings	5,581	5,349	5,692	4,600	3,600	4,50
Bond/Notes Proceeds	388,232		-			
Short-Term Funding Program	-	28,000	27,800	32,700	11,500	17,60
Other Receipts	3,508		-			
Transfers In	52,124	74,641	67,331	75,592	66,561	60,71
Debt Fund Revenues			-			
Interest Earnings	1,703	1,898	985	1,103	1,336	1,65
Bond Proceeds	643,547		-		42,259	
Transfers In (PFCs and Garb Requirement)	121,197	118,560	112,450	128,522	134,503	128,01
Total All Receipts	\$ 2,386,898	\$ 1,717,717	\$ 1,754,941	\$ 1,734,379	\$ 1,648,840	\$ 1,577,74
Uses All Funds						
Operating Fund Expenses						
Personnel	78,048	82,350	82,909	88,222	91,486	94,87
Administration	1,723	1,963	1,964	2,066	2,116	2,16
Professional Services	6,217	6,600	6,681	7,050	7,262	7,48
Utilities	18,816	19,300	19,852	19,696	20,444	21,05
Operating Services	23,389	26,225	26,417	28,955	30,432	31,22
Maintenance	36,319	38,100	38,777	38,514	39,515	40,54
Other/Insurance	4,411	5,400	4,172	4,494	4,602	4,71
Equipment & Other Capital Expenditures	10,332	10,929	10,943	11,200	11,145	11,18
Transfers Out - Debt	92,147	92,948	96,996	105,526	113,920	109,04
Transfers Out - Equipment Financing	2,950	4,977	5,040	4,382	4,232	4,44
Transfers Out - Construction	52,124	74,641	67,331	75,592	66,561	60,71
Working Capital/Other			-			
Construction Fund Expenses						
Capital Project Costs	197,172	202,489	326,918	291,529	226,841	256,55
Debt Service PFC Transfer	29,788	27,454	27,532	26,244	26,237	26,23
Debt Fund Expenses	-,	,	,,,=	-,	-,	, <u> </u>
Bond Refundings	645,380		-			
Bond Principal & Interest Payments	152,500	96,883	122,557	122,900	134,083	151,47
Total All Costs	\$ 1,351,316		,	\$ 826,370	\$ 778,876	\$ 821,69
Total Ending All Net Fund Balances	\$ 1,035,582	\$ 1,027,458	\$ 916,852	\$ 908,009	\$ 869,964	\$ 756,05
1) Includes Operating Fund, Construction Fund	. , ,	. , ,	,.,-		,	

#### Budget Development

As previously indicated, the Commission, in developing targets/guidelines for the 2018 budget, discussed a number of critical issues that needed to be addressed in the short term. Key to this discussion was maintaining a firm grip on expenses, looking for opportunities to derive new revenue and a competitive cost per enplaned passenger. At the start of the budget process in May, passenger activity was showing a year-to-date increase of 1.3% which was lower than the 1.6% passenger increase budgeted for 2017. At year-end 2017 enplaned passengers are estimated to increase 1.2%-1.3% over 2016.

The Commission has experienced positive enplanement growth over each of the last six years, with the largest occurring in 2015, representing a 4.0% increase over 2014. 2018 budgeted enplaned passengers are estimated to grow 1.2% over 2017 estimated passengers. For the period 2017-2022, the estimated growth rate in enplaned passengers is forecasted at 1.2% per year. The chart below shows historical enplaned passenger information from 2014 as well as forecasted enplaned passenger counts to 2022.



In 2017, the Commission added eight new positions, with Police (three positions) and Information Technology (two positions) receiving the majority of new headcount. Continued demand for IT support and the need to increase police presence in the MSP terminals drove the increase in headcount. In 2018, the budget includes funding for eight additional positions with four positions in Police, one in Information Technology (IT), one in Fire and two to be determined. In 2018, the Commission has taken a new approach on certain positions. The 2018 budget approved five unfunded positions for IT which will be added to the full Commission headcount only in the event the department can document long-term savings by hiring an employee as opposed to continuing to pay for service agreements or professional services. In addition, to increase diversity in the Fire Department, the Commission approved two fire trainee positions to replace future retirees. The Commission will then have adequately trained firefighters on hand to fill the vacant positions. The Commission has used this approach in the past to hire for positions that are hard to fill based upon the unique requirements of the job. For details regarding changes in revenues and expenses year over year, see the Operating Budget Revenue and Operating Budget Expense sections of the budget document.

The 2018 and 2019 projections identified in the previous table are prepared using passenger growth and inflation estimates.

#### **Operating Budget**

The following table is a summary of 2016 Actual, 2017 Budget, 2017 Estimate, and 2018 Budget Revenue and Expenses. This table includes both operating and non-operating items.

2018 OPERATING BUDGET SUMMARY								
(\$ = 000)						20	17 Estimate v	s 2018 Budget
	2016	2017		2017	2018		Compar	rison
	Actual	Budget	E	<u>Estimate</u>	Budget		Dollars	Percentage
OPERATING REVENUE								
Airline Rates and Charges	\$ 112,653	\$ 116,463	\$	116,776	\$ 121,311	\$	4,535	3.99
Concessions	160,691	173,394		171,504	175,495		3,991	2.3
Rentals/Fees	48,473	48,622		49,542	51,826		2,284	4.6
Utilities & Other Revenues	17,115	16,628		17,306	17,214		(92)	-0.5
Total Operating Revenue	\$ 338,933	\$ 355,107	\$	355,128	\$ 365,846	\$	10,718	3.09
OPERATING EXPENSES								
Personnel	\$ 78,048	\$ 82,909	\$	82,350	\$ 88,222	\$	5,872	7.1
Administrative Expenses	1,723	1,964		1,963	2,066		103	5.2
Professional Services	6,217	6,681		6,600	7,050		450	6.8
Utilities	18,816	19,852		19,300	19,696		396	2.1
Operating Services	23,389	26,417		26,225	28,955		2,730	10.4
Maintenance	36,319	38,777		38,100	38,514		414	1.1
Other	4,411	4,172		5,400	4,494		(906)	-16.8
Total Operating Expenses (Excludes Depreciation)	\$ 168,923	\$ 180,772	\$	179,938	\$ 188,997	\$	9,059	5.0
Net Operating Revenues	\$ 170,010	\$ 174,335	\$	175,190	\$ 176,849	\$	1,659	0.9
Non-Operating Revenues (Expenses)								
Add: Other Non-operating Revenue	\$ 15,136	\$ 14,788	\$	14,903	\$ 14,933		30	0.2
Less: Debt Service/Equipment/Other	 (110,504)	(116,501)		(114,501)	 (125,221)		(10,720)	9.4
Total Non-Operating Revenues (Expenses)	\$ (95,368)	\$ (101,713)	\$	(99,598)	\$ (110,288)	\$	(10,690)	10.79
Net Revenues	\$ 74,642	\$ 72,622	\$	75,592	\$ 66,561	\$	(9,031)	-11.9

#### **Capital Improvement Process**

Each year the Commission approves a seven-year Capital Improvement Program which is divided into three areas. The first area is approval of projects that will be initiated in year one of the program. The second area identifies projects which may be reviewed in detail to determine cost and feasibility. The third area of the program is the identification of potential projects in years three through seven. At the same time the final Capital Improvement Program is presented for approval, a plan for funding the first three years of the program is provided. The following table summarizes the most recent past program year (2017), the current three-year program (2018 – 2020), and funding summary.

CAPITAL IMPROVEMENT PLAN (CIP) SUMMARY (\$=000)					
	<u>20</u>	17	<u>2018</u>	<u>2019</u>	<u>2020</u>
<u>CIP</u>					
Minneapolis/St. Paul International Airport					
End of Life/Replacement Projects	\$ 16,60	)0 \$	35,750	\$ 10,800	\$ 30,350
Information Technology	21,90	00	11,600	13,400	12,000
Long Term Comprehensive Plan Projects	353,40	00	92,100	117,600	98,300
Maintenance Facility Upgrade Projects	11,99	90	20,755	23,570	67,813
Ongoing Maintenance Programs	33,80	00	16,700	24,550	24,000
Noise Mitigation Projects	3,20	00	6,500	11,500	13,100
Tenant Projects	5,90	00	39,700	6,400	3,200
Total Minneapolis/St. Paul International	446,79	90	223,105	207,820	248,763
Reliever Airports	8,35	50	5,600	18,400	9,000
Total All Airports	\$ 455,14	40 \$	228,705	\$226,220	\$257,763
Funding					
Passenger Facility Charges (PFC's)	\$ 71,60	0 \$	110,850	\$ 87,700	\$111,790
Federal and State Grants	3,02	25	9,600	14,100	12,050
General Airport Revenue Bonds-Line of Credit	320,80	00	32,700	57,800	72,310
Internal/Airline Funds	59,71	.5	75,555	66,620	61,613
Total Funding	\$ 455,14	IO \$	228,705	\$226,220	\$257,763

#### **Debt Service**

Going into the future, the Commission's plan is to issue new debt in 2019 to fund the capital program. The bond issue in 2016 will finance projects in the 2016-2018 time frame, primarily a new auto rental/public parking facility at MSP. The 2019 bond issue is expected to fund various projects around MSP, with the majority of the work in Terminal 1-Lindbergh.

#### Refundings

Throughout the past seven years, the Commission has aggressively pursued the refunding options of its outstanding debt. The following table illustrates the results of this action.

	Refunding	Total	Annual	Present Value
Series Refunded	<u>Year</u>	<u>Savings</u>	<u>Savings</u>	<u>% Savings</u>
1998A, 1999A, 2001A & 2001C <sup>1</sup>	2007	\$ 33,050	\$ 2,330	5.19%
1998B <sup>1</sup>	2008	2,440	365	3.32%
1999B & 2000B <sup>1</sup>	2009	8,140	990	4.95%
2001B & 2001D <sup>1</sup>	2010	9,640	1,150	8.94%
GO 13 <sup>2</sup>	2010	633	214	4.50%
2003A <sup>1</sup>	2011	3,318	369	6.10%
2003A <sup>1</sup>	2012	5,272	293	12.50%
2005A, B & C <sup>1</sup>	2014	60,235	3,011	14.69%
2007A & B <sup>1</sup>	2016	164,340	10,956	25.74%
		\$287,068	\$ 19,678	
Average Present Value Saving	IS			9.55%
Total Average Interest Rate Pr	ior to Refun	dings	5.25%	
Total Average Interest Rate Af	ter Refundin	gs	3.31%	
<sup>1</sup> General Airport Revenue Bond F	Pefundina			
	Cluning			

#### Recent Debt

The Commission issued \$885 million in debt in 2016. The first 2016 issue amounted to \$483 million which refunded a 2007 issue. As the table above shows, the Commission realized an average annual debt service savings of approximately \$11 million per year. The second issue amounted to \$402 million which is a new money issue. The projects identified with this bond issue are the construction of a new, 11-level parking structure adjacent to the existing parking facilities at MSP's Terminal 1-Lindbergh. The garage will provide public parking on levels 6 -11, with rental car parking facilities on levels 2-5. In connection with the parking facility, roadway, parking management building and parking exit plaza relocation are part of the overall project. In addition to the parking structure, some of the bond proceeds were used to retire a portion of the Commission's short-term debt that was used to construct an additional four gates at Terminal 2-Humphrey. The four gates at Terminal 2-Humphrey opened in October 2016.

#### Short-Term Debt

In 2011, the Commission entered into a Short-Term Borrowing Program which replaced a Commercial Paper Program that was terminated in 2010. The Commission looked at many financing alternatives and selected a \$75 million revolving line of credit. During 2017, the Commission increased its line of credit to \$150 million. The increase in the line of credit will enable the MAC to interim fund a number of terminal building projects. The

amounts utilized from the line of credit will be paid off with future PFC applications and bond issues. At December 31, 2017, the Commission had approximately \$40 million outstanding in its line of credit. The Commission estimates that by December 31, 2018 the Commission will have approximately \$68 million outstanding in its line of credit. This Short-Term Borrowing Program also allows the Commission some flexibility in financing unanticipated or unforeseen capital improvements.

#### Air Service

Maintaining and adding air service is very important to the Commission. The Air Service Business Development Department is responsible for three primary areas: 1) developing air service by marketing MSP for new international passenger, cargo, and new low-fare domestic passenger flights; 2) promoting the facilities and services of MSP and the MAC's system of airports both domestically and internationally; and 3) building community relations by establishing partnerships with public and private sectors to increase their awareness of the importance of air service in the region, and to solicit their support for such services.

As of December 2017:

- 131 domestic destinations and 28 international destinations—159 total
- MSP has competitive service (at least two airlines providing service) to 58 destinations (42 domestic and 16 international).
- All of the top 20 domestic destinations are competitive destinations.
- Low-cost carriers (Frontier, Southwest, Spirit, and Sun Country) serve 42 domestic destinations and 14 international destinations nonstop.



Visible From the Sky, MSP Thanks Travelers for a Record-Setting 2017 with More than 38 Million Passengers



#### Organizational Strategic Plan

In 2016, the MAC Board of Commissioners approved a new, multi-year strategic plan for the organization. The 2017-2022 plan is an evolution from key initiatives to strategic goals and objectives. The plan's structure is streamlined, increasing cross-departmental collaboration and creating stronger connections between its components and department plans.

#### Development of the MAC 2017-2022 Strategic Plan

- Identify strategic priorities for the MAC over the course of the plan
- Determine challenges to these priorities and design potential solutions to achieving them
- Interview representatives from key stakeholder groups
- Review survey results, align priorities, and set strategic plan framework
- Develop strategic plan mission, vision, goals, and objectives
- Approve strategic plan mission, vision, goals, and objectives

#### Short-term Organizational Strategic Goals



#### Goals and Objectives

We have identified in prior sections the current or near-term issues facing the MAC in this budget year. Looking to the future, the following will be the areas where we will focus our resources. These include:



#### **Customer Experience**

Delight our passengers. Objectives on which the MAC will focus during 2018 include the following:

- Reimagine and renew our airports to continually evolve our customer experience
- Advance the culture of customer experience at our airports
- Enhance surface transportation options to MSP



#### Air Service

Grow and enhance air service at MSP. Objectives on which the MAC will focus during 2018 include the following:

- Increase competition, attract new airlines, and expand service for non-stop destinations
- Maintain our appeal as a hub operation



#### Safety, Security, Preparedness

Keep our airports safe and secure. Objectives on which the MAC will focus during 2018 include the following:

- Prepare for current and potential threats to public safety and critical infrastructure through robust and aligned airport planning processes
- Engage, support, and expand emergency preparedness and response training for the airport community
- Ensure capacity to respond and recover effectively to changes in our facilities, passenger growth, and situations that impact our community



#### Economic

Maintain our competitive cost structure while maximizing our airports' economic benefit. Objectives on which the MAC will focus during 2018 include the following:

- Maintain MAC's competitive cost structure
- Grow non-aeronautical revenues in concessions, parking, and property development
- Measure and communicate our airports' economic benefit to the region



#### Engagement

Grow and enhance the narrative. Objectives on which the MAC will focus during 2018 include the following:

- Lead conversations on strategic topics with stakeholders
- Leverage communication tools for a balanced public engagement process



#### Innovation

Innovate through opportunities in technology and sustainability. Objectives on which the MAC will focus during 2018 include the following:

- Modernize and accelerate technology use, enabling enterprise solutions
- Integrate sustainability into our culture



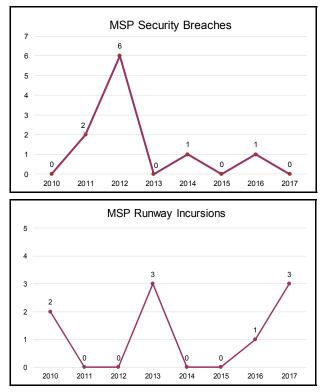
#### Talent

Be a model employer. Objectives on which the MAC will focus during 2018 include the following:

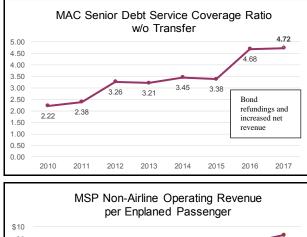
- Cultivate an engaged workforce
- Increase diversity, inclusion, and equity at MAC
- Invest in training and professional development opportunities that align with our goals

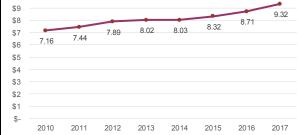
#### Performance Measures

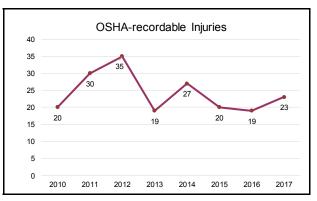
#### Safety and Security

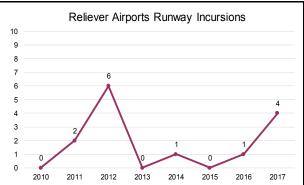


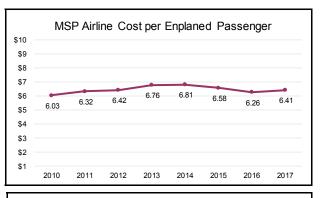
#### Financial

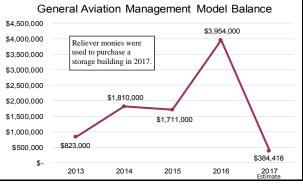




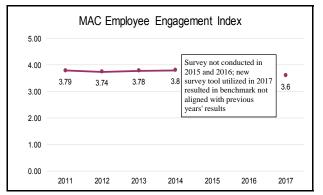






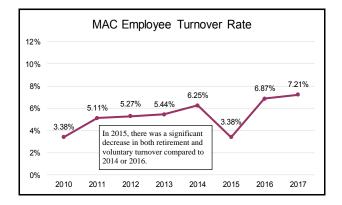


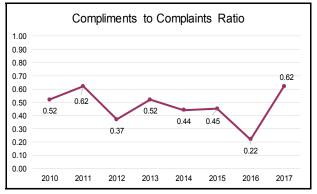
#### **Employee Engagement**



#### **Customer Experience**

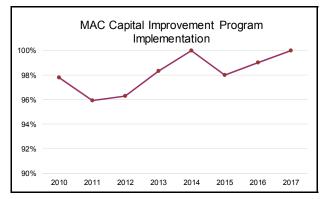






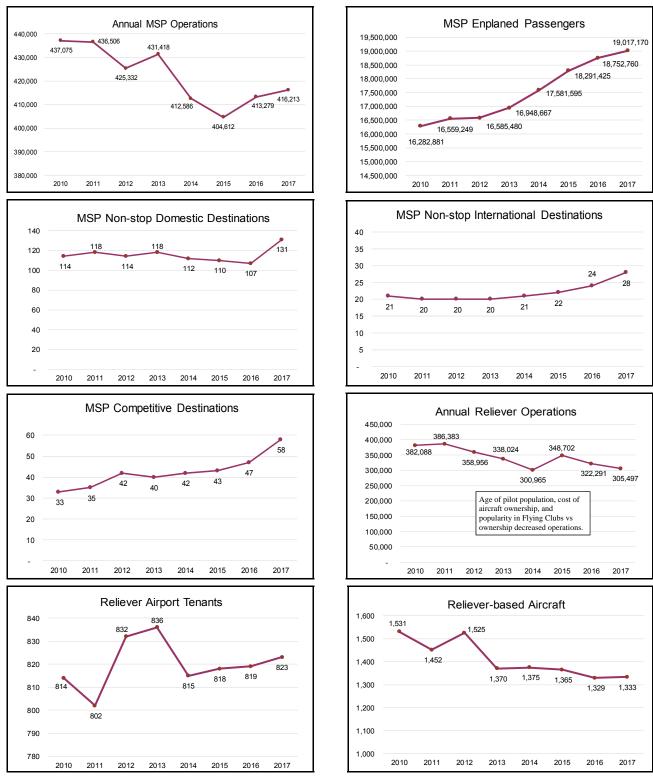
\*The compliment-to-complaint ratio declined in 2016 due to external entities promoting campaigns to influence decisions by the Metropolitan Airports Commission.

#### Development



The following Performance Measures are common benchmark measures; however, the MAC has limited ability to impact these numbers directly.

#### Operations



#### GFOA Budget Award

The Government Finance Officers Association of the United States and Canada (GFOA) presented a Distinguished Budget Presentation Award to the Metropolitan Airports Commission for its annual budget for the fiscal year beginning January 1, 2017. In order to receive this award, a government unit must publish a budget document that meets program criteria as a policy document, as an operations guide, as a financial plan, and as a communications device.

This award is valid for a period of one year only. We believe our current budget continues to conform to program requirements, and we are submitting it to GFOA to determine its eligibility for the 2018 award.

#### **Acknowledgement**

The budget is the result of countless hours of work by the staff of the Finance Department and by Commissioners who served on the Finance and Administration Committee. A very special thanks goes out to all MAC staff who worked especially hard to develop the final 2018 Budget. Through this hard work and effort, we hope that the MAC will continue to be one of the most safe, efficient, and cost-effective airport operators in the nation. It is significant to note that the Distinguished Budget Presentation Award has been presented to the Commission annually by the GFOA since 1985.

Respectfully submitted,

Brian Ryks Executive Director/CEO

teph 2 Busch

Stephen L. Busch Chief Financial Officer

Robert Solaus

Robert Schauer Director – Finance



2017 Budget Award

#### Awards Received During 2017



Airport of the Year, Best Airport Staff in North America – SKYTRAX

Balchen/Post Award for Excellence in the Performance of Airport Snow and Ice Control, Honorable Mention – International Aviation Snow Symposium

Best Airport in North America, 25-40 million passengers per year – Airport Council International

Best Airport Newsstand/Travel Essential – Airport Revenue News

Best New Food & Beverage, Quick Service – Airports Council International-North America

Best New News & Gift Concept – Airports Council International-North America

Bronze Workplace Health Achievement Award – American Heart Association

Certificate of Achievement for Excellence in Financial Reporting, 33 consecutive years – Government Finance Officers Association



Design and Aesthetics Renovation/Remodel, Interior Retail over 15,000 Square Feet – Minnesota Shopping Center Association

**Distinguished Budget Presentation Award, 33 consecutive years** – Government Finance Officers Association



Environmental Achievement Award, Special/Innovative Projects Category – Airports Council International-North America

Excellence in Airport Concessions Best Retail Program, Large Airport – Airports Council International-North America

Interior Design, Quick Service/Fast Casual/Fast Food – Minnesota Shopping Center Association

Most Efficient Airport in North America – Airport Transportation Research Society

Navigating MSP Program - Autism Society of Minnesota

Platinum + Green Wellness by Design Worksite - Hennepin County

Property Manager of the Year - Airport Revenue News

Randy Jones Award for Excellence in Noise Mitigation – American Association of Airport Executives/Airports Council International

Sixth Best Airport in Customer Satisfaction, Mega Airport Category – J.D. Power

Step 2 Carbon Accreditation – Airports Council International-North America

Terminal 2-Humphrey Solar Array – Association of Energy Engineers

Top 10 U.S. Airports – Travel + Leisure



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## The Organization



**Overlooking Downtown St Paul** 

#### **The Commission**

The Minneapolis-St Paul Metropolitan Airports Commission was created by an act of the Minnesota State Legislature in 1943 as a public corporation of the State. The purpose of the Commission is to:

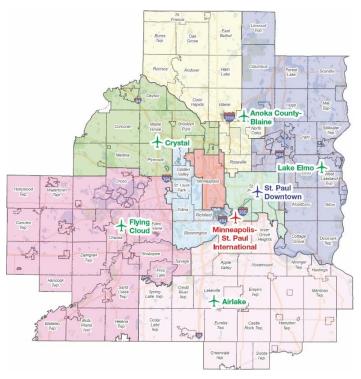


**Overlooking Downtown Minneapolis** 

- Promote air navigation and transportation (international, national, and local) in and through the State of Minnesota.
- Promote the efficient, safe, and economic handling of air commerce and to assure the inclusion of the State in national and international programs of air transportation. To those ends, develop the full potentialities of the metropolitan area as an aviation center.
- Assure minimum environmental impact from air navigation and transportation for residents of the metropolitan area, promote the overall goals of the State's environmental policies, and minimize the public's exposure to noise and safety hazards around the airports.

#### **Commission Jurisdiction 35 Mile Radius**

The area over which the Commission exercises its jurisdiction is the Minneapolis-St. Paul Metropolitan Area which includes Anoka, Carver, Dakota. Hennepin, Ramsey, Scott. and Washington Counties, and extends approximately 35 miles out in all directions from the Minneapolis and St. Paul City Halls. The Commission owns and operates seven airports within the Metropolitan Area. Scheduled air carriers are served by the Minneapolis-St. Paul International Airport. Six Reliever Airports serve business and general aviation.



2018 Budaet The Organization

The Chair and fourteen Commissioners govern the Metropolitan Airports Commission. The Governor of the State of Minnesota appoints the Chair and twelve Commissioners. Of these twelve Commissioners, eight are from designated districts within the Metropolitan Area and four are from outside of the Metropolitan Area. The Mayors of St. Paul and Minneapolis also have seats on the Commission, with the option to appoint a surrogate to serve in their place. While the Commissioners' terms are four years, the Chair serves at the pleasure of the Governor.



Dan Boivin **Commission Chairman** 



Brian Ryks Executive Director/CEO



**Carl Crimmins** District A



**Rick King** District B



Katie Clark Sieben District C



Steve Cramer District D



James Deal District E



Michael Madigan District F



**Richard Ginsberg** District G



Ibrahim Mohamed District H



Leili Fatehi City of Minneapolis



Pat Harris City of St Paul



Randy Schubring



Patti Gartland



**Donald Monaco** 



Dixie Hoard

The Commission established three committees. Each of the committees (Planning, Development & Environment, Finance & Administration, and Management & Operations) meets on a monthly basis. The committees are responsible for all aspects of business which fall under their respective jurisdiction. Recommendations on all action items are made by the committees to the Full Commission. The Full Commission also meets monthly. All of the committee meetings, as well as the Full Commission meeting, take place in MSP's Terminal 1-Lindbergh. Occasionally, the Full Commission meets outside the terminal to provide easier access for the general public.

Committee	Time of Meeting	Meeting Place
Finance & Administration (F&A)	9:30 a.m., first Monday of the month	Terminal 1-Lindbergh
Planning, Development & Environment (PD&E)	10:30 a.m., first Monday of the month	Terminal 1-Lindbergh
Management & Operations (M&O)	1:00 p.m., first Monday of the month	Terminal 1-Lindbergh
Full Commission	1:00 p.m., third Monday of the month	Terminal 1-Lindbergh

All financial information is reported to and acted upon at the Finance & Administration Committee (F&A) meeting and reported to the Full Commission. The following information summarizes the general financial areas that the F&A Committee dealt with in 2017:

- Audits
  - Annual Internal Audit Plan
  - Financial Audits
  - Internal Policy/Procedure Audits
  - Approval of Internal Audit Director
- > Operating Budget
  - Monthly Reports
  - Ratification of 2016 Expenditures
  - Distribution of 2016 Net Revenues/Unrestricted Cash
  - 2018 Budget Targets
  - 2018 Preliminary and Final Budgets
- Financial Policies
  - Purchasing Policy Updates
  - Consultant Policy Updates
  - General Aviation Financial Model

#### Divisions

Under the direction of the Commission, the MAC's organizational structure is made up of six divisions within the Operating Fund. The six divisions are: Executive; Finance & Administration; Planning & Development; Management & Operations; Human Resources & Labor Relations; and Strategy & Stakeholder Engagement. The Executive Division oversees all MAC business and is directly responsible to the MAC's Board of Commissioners. The chart on the following page identifies the organizational structure by division.

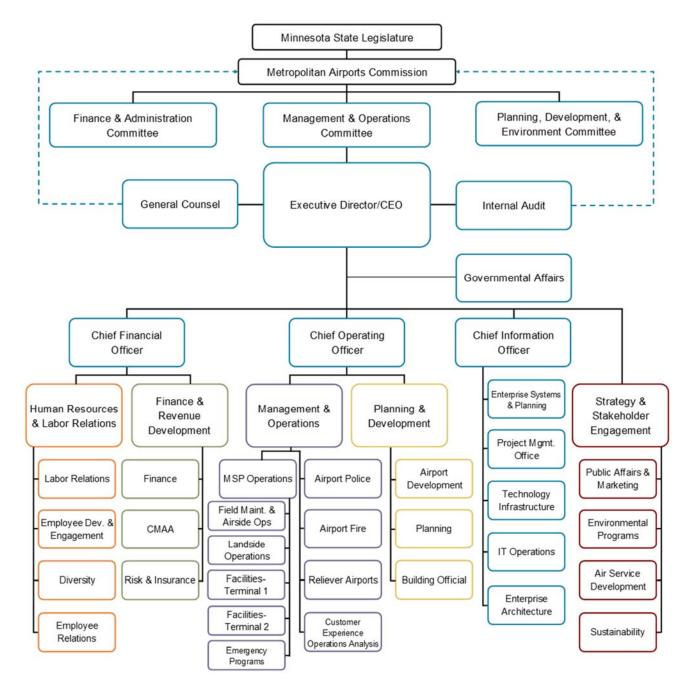
The following are the changes made in the organization in recent years to better reflect the service center responsibilities and reporting structure:

- In 2017, the structure changed from four divisions to the six divisions described above.
- In 2017, the Human Resources & Labor Relations Division was created. This service center, as well as Employee Development & Engagement, Employee Relations, and Diversity moved to this new division.

- Bonds/Debt/Capital Funding
  - Passenger Facility Charge Application(s) and Amendments
  - Financial Feasibility Consulting Services
  - IT Capital Equipment Approval
  - Short-Term Borrowing Program Selection
- Investments
  - Investment Policy Revisions
- Human Resources and Affirmative Action
  - Human Resources and Affirmative Action
     Policies and Procedures
  - Employee Benefits and Compensation
  - Ratification of Labor Agreements

 In 2017, the Strategy & Stakeholder Engagement Division was created. The Public Affairs & Marketing, Air Service Development, Sustainability & Strategy, and all Environmental service centers moved to this new division.

#### **Organizational Chart**



#### **Service Centers**

Service centers are the lowest budget levels in the organization. A combination of service centers is sometimes referred to as a department. These service centers are responsible for specific functions that relate to one another. The department format provides department heads with an opportunity to review functions they manage as one (example: Finance includes Purchasing). The following page shows a listing of service centers and the divisions in which they reside.

Division		Service Center
Division	Number	Name
Executive	75100	Executive-Commissioner
	75000	Executive-General
	75600	Finance & Administration
	81000	General Counsel
	78300	Internal Audit
	79500	Governmental Affairs
	79000	Information Technology
Strategy & Stakeholder Engagement	76000	Public Affairs & Marketing
	85000	Environment-General
	85100	Environmental Affairs
	85300	Aviation Noise Program
	76100	Air Service Business Development
	76200	Sustainability & Strategy
Finance & Revenue Development	76700	Live Well, Stay Well
	76800	Insurance/Risk Management
	78000	Finance
	78100	MAC General
	78200	Purchasing
	80000	Commercial Management & Airline Affairs
	80100	Concessions & Business Development
	82050	MSP Airport Conference Center
Human Resources & Labor Relations	75700	Human Resources & Labor Relations
Human Resources & Labor Relations	76600	
	80600	Employee Development & Engagement
		Diversity
	81500	Employee Relations
Planning & Development	75500	Planning & Development
	77000	Airport Development
	77100	Building Official
Management & Operations	75800	Management & Operations
	82000	MSP Airport Operations
	83400	Landside-Administration
	85500	Facilities-Terminal 2
	86100	Facilities-Terminal 1
	86300	Facilities-Energy Management Center
	88400	Trades-Administration
	88000	Trades-Electricians
	88100	Trades-Painters
	88200	Trades-Carpenters
	88300	Trades-Plumbers
	89000	Field Maintenance
	82600	Airside Operations
	83600	Fire
	84200	Police
	90000	Relievers-Administration
	90200	Relievers-St. Paul
	90300	Relievers-Lake Elmo
	90400	Relievers-Airlake
	90500	Relievers-Flying Cloud
	90600	Relievers-Crystal
	90700	Relievers-Anoka

#### Organizational Structure by Division and Service Center

#### Full-Time Equivalent Positions (FTEs)

The total overall 2018 budgeted FTEs are 645.5, which is an increase of 18 FTEs over 2017. The additional positions are allocated between the service centers based on needs of the organization. The increased FTE count in 2018 is necessary to address enterprise technology needs, airport safety and security, succession planning for the Fire Department, and to provide flexibility in organization staffing needs.

In 2014, six temporary operations staff at MSP Terminal 2-Humphrey were made into regular status positions resulting in 591 budgeted FTEs.

2015 brought about 10 new positions to fill in departments that required extra support such as Trades staffing needed to assume the operational control of the G Concourse from Delta. Also, 9.5 part-time and provisional PSA staff became full-time to reflect the actual hours worked by these employees.

Nine FTEs were added in 2016 to meet legal mandates and regulatory requirements to ensure a safe and secure airport system and to stay current with information technology and systems. This created a total of 619.5 approved FTEs.

In 2017, eight FTEs were added to meet growing technology and airport safety needs. Total approved FTEs in 2017 were 627.5.

As shown in the chart below, the Commission authorized an additional 18 FTEs in 2018. A previous Information Technology study concluded the MAC needs more resources to meet the ever-changing and increasing demand for technology. Five of these positions will be unfunded Information Technology FTEs. They will be filled only if a cost savings can be shown over the current cost of hiring a professional service contractor. In addition, the actual salary amount for budgeted positions is adjusted to reflect a limited vacancy factor to account for time to fill open positions.

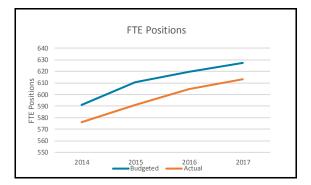
The following table and graph compares budgeted and actual FTEs. Although budgeted FTEs are authorized to meet legal mandates and regulatory requirements, the actual position counts are lower than budget each year because the MAC re-evaluates each vacated position to determine if it is needed, if it should be changed or if the duties can be merged into another position. This process is necessary to keep down costs. Also, a number of retirements occur each year as many staff members are reaching retirement age.

The graph shows an overall increase in positions across the years as passenger counts increase and the MAC adds positions to cover areas in need of additional staffing.

FTE Positions	2014	2015	2016	2017	2018
Budgeted	591	610.5	619.5	627.5	645.5
Actual	576	591	604.5	613	TBD



Field Maintenance Staff Pose with Equipment





Environment Staff Receive International Award

#### Regular Status Full-Time Equivalent Position Count by Service Center within each Division

Consider Co		2014	2015	2016	2017	2017	2018	
Service Cer	nter	Actual	Actual	Actual	Actual	Budget	Budget	
Executive 75000 Executive-0	Conorol	As of 12/15/14	As of 12/28/15	As of 12/19/16		3	3	
75100 Executive-		3 0.5	3 0.5	3 0.5	3 0.5	3 0.5	3 0.5	
75600 Finance & /		2		2	3	2	5	
78300 Internal Au		4	4		4	4	4 45 <sup>2</sup>	
79000 Informatio	67	26	28	32	37	38	45	
79500 Governme		1.5	1.5	1.5	1.5	1.5	1.5	
81000 General Co		8.5	8.5	8.5	8	9	9	
Total Exect		45.5	47.5	51.5	57	58	66	
	BUDGE	T 45.5	46	55	58	58	66	
Strategy &	Stakeholder Engagement							
76000 Public Affa	irs & Marketing	7	8	10	10	10	10	
76100 Air Service	Business Development	0	0	0	0	0	1 3	
76200 Sustainabil	ity & Strategy	0	0	2	1	3	3	
85000 Environme	nt-General	5	5	3	3	4	4	
85100 Environme	ntal Affairs	3	3	3	3	3	4 4	
85300 Aviation No	oise Program	5	5	5	5	5	5	
	egy & Stakeholder	20	21	23	22	25	27	
Engag	ement BUDGE	T 19	22	24	25	25	27	
Financa 9	Revenue Development							
76800 Insurance/	•	6	6	6	6	6	6	
78000 Finance		15	15	15	15	15	15	
78100 MAC Gener		13	13	13	13	0.5	2.5 <sup>5</sup>	
78200 Purchasing		7.5	7.5	6	6	0.3	2.3	
0	al Mgmt & Airline Affairs	7.5	7.5	5	5	5	5	
	U	4	5	5	4	5	5	
	ns & Business Development rt Conference Center	4	-	2	4	3	3	
•		40.5	41.5	39	39	40.5	42.5	
i otal Finar	ice & Revenue Development BUDGE		41.5 <b>45</b>	39 <b>40.5</b>	<b>40.5</b>	40.5 <b>40.5</b>	42.5 <b>42.5</b>	
	BODG	-1 40	45	40.5	40.5	40.5	42.5	
Human Re	sources & Labor Relations							
75700 Human Res	sources & Labor Relations	3	5	5	5	5	5	
76600 Employee I	Development & Engagement	3	2	3	3	3	1 6	
80600 Diversity		2	2	2	2	2	2	
81500 Employee I	Relations	5	3	3	3	3	5 6	
Total Hum	an Resources & Labor	13	12	13	13	13	13	
Relatio	ons BUDGE	T 14	13	13	13	13	13	





MAC Employees at the Annual Employee Recognition Luncheon, Hosted at MAC Fire Station #1

	2014	2015	2016	2017	2017	2018	
Service Center	Actual	Actual	Actual	Actual	Budget	Budget	
Planning & Development	As of 12/15/14	As of 12/28/15	As of 12/19/16	As of 12/18/17			
75500 Planning & Development	2	2	2	2	2	2	
77000 Airport Development	13	14	16	15	16	16	
77100 Building Official	2	2	2	1	2	2	
Total Planning, Dev. & Environment	17	18	20	18	20	20	
BUDGE	r 20	20	20	20	20	20	
Management 8 Onemations							
Management & Operations	3.5	3.5	3.5	3.5	3.5	3.5	
75800 Management & Operations	3.5	3.5	3.5	3.5	3.5	3.5	
82000 MSP Airport Operations 82600 Airside Operations	15	16	16	15		15	2
83400 Landside-Administration	24.5	31.5	34.5	36.5	35.5	37.5	7
83600 Fire	49	46	54.5 46	50.5	50	57.5	8
84200 Police	49 125	40 128	40 129	132	137	141	9
85500 Facilities-Terminal 2	9	128	129	152	157	141	
86100 Facilities-Terminal 1	9 10	9	9	3	9	9	
86300 Facilities-Energy Management Center	21	21	23	22	22	22	
88000 Trades-Electricians	18	19	23 19	19	19	19	
88100 Trades-Painters	8	19	19	19	19	19	
88200 Trades-Carpenters	8	10	10	10	10	10	
88300 Trades-Plumbers	9	10	10	10	10	9	
88400 Trades-Administration	2	2	2	2	2	2	
89000 Field Maintenance	107	108	108	109	110	110	
90000 Relievers-Administration	8	8	7	7	8	8	
90200 Relievers-St. Paul	7	7	7	7	7	7	
90300 Relievers-Lake Elmo	1	1	1	1	. 1	. 1	
90400 Relievers-Airlake	1	1	1	1	1	1	
90500 Relievers-Flying Cloud	3	3	4	4	4	4	
90600 Relievers-Crystal	3	3	3	3	3	3	
90700 Relievers-Anoka	4	4	3	3	3	3	
<b>Total Management &amp; Operations</b>	440	451	458	464	471	477	
BUDGE	r 452.5	464.5	467	471	471	477	
TOTAL ACTUAL FTEs	576	591	604.5	613	NA	NA	
TOTAL BUDGET FTES	591	610.5	619.5	627.5	627.5	645.5	

Regular Status Full-Time Equivalent Position Count by Service Center within each Division

#### FTEs differ between the 2017 and 2018 budgets for the following reasons:

<sup>1</sup> The Vice President of Finance and Revenue Development position was created in June 2017.

<sup>2</sup> IT continues to be an area of prioritized organizational growth to fully meet current needs. One unspecified FTE has been added to the Information Technology service center. One FTE was moved from Airside Operations. Five additional unfunded FTEs were added. These positions will be filled as anticipated cost savings prove out.

<sup>3</sup> The Assistant Director of Air Service Development position was created in June 2017 and will be filled in 2018.

<sup>4</sup> The Vice President of Strategy and Stakeholder Engagement position was created in June 2017 and will be filled in 2018.

<sup>5</sup> MAC General includes two new FTEs for 2018 that have not been assigned to service centers.

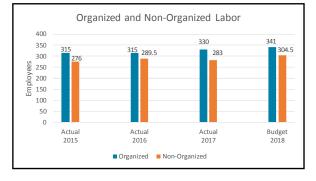
<sup>6</sup> Two FTEs moved from Employee Development & Engagement to Employee Relations in 2018. The reclassification more accurately reflects the service center that these employees' work supports.

<sup>7</sup> Two FTEs were added during 2017 for Operations Agents, due to increased Transportation Network Company activity.

<sup>8</sup> One FTE was added as a Fire Fighter Trainee. This position was created to ensure no gap in staffing as expected retirements take place within the Airport Fire Department.

<sup>9</sup> Four FTEs were added for additional Police Officers. Safety and security of the airport is a primary focus of the organization. These additional FTEs will bolster the MAC's ability to maintain safety and security as security and campus needs evolve.

Regular Status Full-Time Equivalent Position Co	ount by Jo	b Classif	ication	
Organized	2015 Actual	2016 Actual	2017 Actual	2018 Budget
Local 70 Operating Engineers	21	19	22	22
49er's Equipment Maintenance	21	18	20	20
320's - MSP Int'l - Field	73	75	76	79
320's - MSP Int'l - Facilities	1	1	0	0
320's - Reliever Airports	19	19	22	22
Painters -386	8	10	10	10
Carpenters - CAR	10	10	10	10
Plumbers -034	10	10	10	10
Electricians - 292	19	19	19	19
Emergency Communications Specialists	12	12	12	13
Police Lieutenants/Sergeants - 307	19	18	19	19
Police Officers - 302	60	62	65	71
Firefighters - S6	33	33	36	37
Fire Captains - S6	9	9	9	9
Total Organized	315	315	330	341
Non-Organized				
Chairperson/Executive Director-CEO	1.5	1.5	1.5	1.5
Vice Presidents/Directors/Assistant Directors	25.5	27.5	30	33
Managers/Assistant Managers/Supervisors	88	92	68	72
Police Chief/Fire Chief	2	2	2	2
Community Service Officers	5	7	4	5
Passenger Service Assistants	20.5	21.5	22.5	23.5
Fire Marshall/Training Coordinator	2	2	2	2
Police Commander/Deputy Chief/Training Coordinator	3	3	3	3
Administrative/Professional/Technical Support	128	133	150	155
Unassigned	0.5	0	0	7.5
Total Non-Organized	276	289.5	283	304.5
Total MAC	591	604.5	613	645.5



The above chart shows staff by job classification. "Organized" refers to those work areas or employees which are represented by a labor union contract. All unions represented have specific contracts which dictate wages, benefits, and work rules. Currently, the MAC has 14 represented labor groups. "Non-Organized" refers to all other employees outside the labor unions. The graph to the left shows Organized FTE positions are greater than Non-Organized FTE positions.



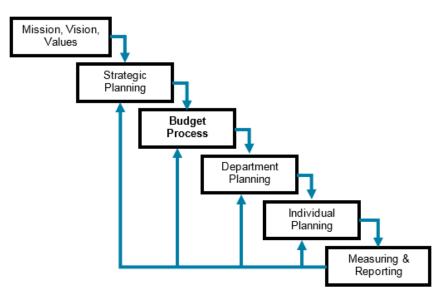


MAC Teams Participate in Events to Raise Money for Special Olympics Minnesota: Plane Pull (left), Polar Plunge (right)

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## Budget Process & Financial Policies

#### Budget Process



The MAC's Mission, Vision, and Values drive the Strategic Planning process which is updated annually to establish organizational priorities. The budget process is the third step in the MAC's annual planning process.

Input is received from the Commissioners, Senior Staff, and various levels of management through planning sessions that identify critical issues, strategic goals, and organizational objectives.

The draft Strategic Plan is presented to the Commission in conjunction with the proposed annual budget targets. The targets for the 2018 budget are presented in the Executive Summary section.

Following Commission approval, the Strategic Plan is communicated to the service centers along with guidelines and the budget targets. The service centers link their objectives to the Organizational Strategic Goals and Objectives.

The next step is to develop the budget requests for resources based on organizational priorities. Position requests and other costs are evaluated using the following criteria:

#### Full-Time Equivalent (FTE) Requests

First priority	Necessity to meet legal mandates and regulatory requirements
Second priority	Ability to maintain a safe and secure airport system
Third priority	General business need
Other Costs	
First priority	Additional costs required to meet security requirements
Second priority	Embedded cost increases such as scheduled increases in contracts, salary adjustments for organized labor, utility rate increases, etc.
Third priority	Costs to maintain facilities

#### Controllable Expenses

The MAC prepares a line item budget for each service center. Controllable expenses allow a service center to budget for those line items for which they have direct responsibility and control. In addition to the account number, expenses are also budgeted using the appropriate subledger, which is part of the account code. Expenses are budgeted to the appropriate subledger through either direct cost or allocation. Expenses of the organization are key factors in revenue calculations. Rates and charges revenue collected from the airlines are governed by the Airline Use Agreement and corresponding amendments. Other revenue collections are dictated by either lease or ordinance. The summarized costs from the subledgers determine the calculation of various rates and charges. The Subledger Report is in the Operating Budget Expense section.

### Budget Schedule

The MAC's fiscal year is January through December. Preparation for the next year begins in January with discussions on the Capital Improvement Program (CIP) and strategic planning. The budget process begins in March. Each department assigns a budget specialist to coordinate budget information for their respective service centers and inputs the budgets into the database. The database includes history which includes the prior year actual data.

In April, the Finance & Administration Committee provides direction to staff with regard to growth and allocation of funds and budget targets. The direction provided by the Finance & Administration Committee is communicated to staff at various informational meetings and is included in the budget documents. The Commission approves the targets in June after a 30-day public comment period.

The budget database is available to service centers to input their data in June. Service centers have four weeks to complete their budget. Finance reviews and summarizes information.

The staffing matrix is the first item reviewed by Executive Staff.

August is spent compiling summary reports and completing the revenue budget, with the exception of airline rates and charges. The expense budget must be complete in order to determine airline rates and charges. Once these rates are calculated and final revenue figures are available, total revenue and expense is completed. Non-operating revenue and expenses are also taken into consideration and become part of the budget documents. Staff revisions are made as required to ensure the targets as established are met.

During September, presentations and supporting documents are prepared for the Finance & Administration Committee, Senior Staff, and airlines. In addition, a draft budget is sent to the Minnesota State Legislature. The airlines receive a formal budget presentation in October. The month of October is reserved for presentations to the Finance & Administration Committee and revisions prior to requesting final approval.

The Finance & Administration Committee will receive updates from staff during October and November. The recommendation from the Finance & Administration Committee for final approval is requested at the December Commission meeting. Final approval of the 2018 Operating Budget was given at the December Commission meeting. Notifications of rate changes are sent at the beginning of December based upon assumed approval from the Full Commission. Changes, if necessary, are communicated upon final approval.

#### Capital Improvement Program – Schedule

Initial discussions of the Capital Improvement Plan (CIP) begin in January. All requests for projects, along with data related to the proposed projects, are submitted. Airport Development analyzes the project scope, costs, and priorities with a preliminary draft developed in June and July.

In September, approval of the preliminary CIP plan is requested from the Planning, Development & Environment Committee for environmental review. At this time, mailings are sent to the affected communities and municipalities. In October, a 30-day notice of public hearing is published. A public hearing is held in November.

Recommendation for approval of the CIP from the Planning, Development & Environment Committee is requested at the December Commission meeting.

Distribution of the approved CIP is made to MAC Departments, Metropolitan Council, State Historical Society, and affected communities in December.

JANUARY Discuss CIP and strategic planning



Prepare budget and preliminary CIP Approve Strategic Plan

> AUGUST TO NOVEMBER

Present budget and CIP drafts to public with comment period



Approve budget and CIP by Commission Distribute final CIP Send rate change notices

MARCH Complete budget document

#### Calendar

The following schedule provides additional details for the budget cycle, which begins in January. The Metropolitan Airports Commission fiscal year also begins in January.

	Task	Responsibility
	Discuss initial CIP	Airport Development
	Discuss initial strategic planning	Full Commission
APRIL		
	Task	Responsibility
	<ul> <li>Provide direction to staff regarding growth and allocation of funds and budget targets</li> </ul>	F&A Committee
	Prepare service center historical information and update databases	Finance
	Approve Strategic Plan	Full Commission
MAY		
	Task	Responsibility
	Provide direction to budget specialists	Finance
	Provide information regarding inflation factors, wage, and contract	Finance
	adjustments to the departments	Finance
	<ul> <li>Adopt budget targets after 30-day public comment period</li> </ul>	Finance
JUNE		<b>D</b>
	Task	Responsibility
	<ul> <li>Input budget information into budget and strategic planning databases</li> </ul>	Finance
	Present preliminary budget to F&A Committee, a requirement to	Finance
	comply with State Statutes – taxing purposes	
	Develop draft preliminary CIP	Airport Development
JULY		
	Task	Responsibility
	<ul> <li>Compile positions and headcount requests summary</li> </ul>	Finance & HR
	<ul> <li>Compile summary of capital assets requests</li> </ul>	Finance & MAC Staff
	<ul> <li>Present budget requests to Executive Director/CEO</li> </ul>	Finance
	<ul> <li>Initiate budget revisions as needed</li> </ul>	Finance
AUGUST		
	Task	Responsibility
	<ul> <li>Approve preliminary position and headcount requests</li> </ul>	Executive Staff/ HR
	<ul> <li>Approve preliminary summary of capital assets requests</li> </ul>	Executive Director/CEC
	<ul><li>Approve preliminary summary of capital assets requests</li><li>Prepare summary of controllable expense requests and supporting</li></ul>	
	<ul> <li>Approve preliminary summary of capital assets requests</li> <li>Prepare summary of controllable expense requests and supporting schedules</li> <li>Compile revenue analysis and projections</li> </ul>	Executive Director/CEC
	<ul> <li>Approve preliminary summary of capital assets requests</li> <li>Prepare summary of controllable expense requests and supporting schedules</li> </ul>	Executive Director/CE0 Finance
SEPTEMBER	<ul> <li>Approve preliminary summary of capital assets requests</li> <li>Prepare summary of controllable expense requests and supporting schedules</li> <li>Compile revenue analysis and projections</li> </ul>	Executive Director/CE0 Finance Finance
SEPTEMBER	<ul> <li>Approve preliminary summary of capital assets requests</li> <li>Prepare summary of controllable expense requests and supporting schedules</li> <li>Compile revenue analysis and projections</li> <li>Complete revenue forecast</li> </ul>	Executive Director/CEC Finance Finance Finance <b>Responsibility</b>
SEPTEMBER	<ul> <li>Approve preliminary summary of capital assets requests</li> <li>Prepare summary of controllable expense requests and supporting schedules</li> <li>Compile revenue analysis and projections</li> <li>Complete revenue forecast</li> </ul> Task <ul> <li>Compile budget presentation information</li> </ul>	Executive Director/CEC Finance Finance Finance <b>Responsibility</b> Finance
SEPTEMBER	<ul> <li>Approve preliminary summary of capital assets requests</li> <li>Prepare summary of controllable expense requests and supporting schedules</li> <li>Compile revenue analysis and projections</li> <li>Complete revenue forecast</li> </ul> <b>Task</b> <ul> <li>Compile budget presentation information</li> <li>Distribute budget packages to airlines, State Legislature, and the</li> </ul>	Executive Director/CE Finance Finance Finance <b>Responsibility</b> Finance MAC Staff, Finance, &
<u>SEPTEMBER</u>	<ul> <li>Approve preliminary summary of capital assets requests</li> <li>Prepare summary of controllable expense requests and supporting schedules</li> <li>Compile revenue analysis and projections</li> <li>Complete revenue forecast</li> </ul> <b>Task</b> <ul> <li>Compile budget presentation information</li> <li>Distribute budget packages to airlines, State Legislature, and the F&amp;A Committee</li> </ul>	Executive Director/CEC Finance Finance Finance <b>Responsibility</b>
SEPTEMBER	<ul> <li>Approve preliminary summary of capital assets requests</li> <li>Prepare summary of controllable expense requests and supporting schedules</li> <li>Compile revenue analysis and projections</li> <li>Complete revenue forecast</li> </ul> <b>Task</b> <ul> <li>Compile budget presentation information</li> <li>Distribute budget packages to airlines, State Legislature, and the F&amp;A Committee</li> <li>Present draft budget to MAC staff, F&amp;A Committee and the airlines</li> </ul>	Executive Director/CE0 Finance Finance Finance <b>Responsibility</b> Finance MAC Staff, Finance, & Senior Staff Finance
<u>SEPTEMBER</u>	<ul> <li>Approve preliminary summary of capital assets requests</li> <li>Prepare summary of controllable expense requests and supporting schedules</li> <li>Compile revenue analysis and projections</li> <li>Complete revenue forecast</li> </ul> <b>Task</b> <ul> <li>Compile budget presentation information</li> <li>Distribute budget packages to airlines, State Legislature, and the F&amp;A Committee</li> <li>Present draft budget to MAC staff, F&amp;A Committee and the airlines</li> <li>Implement budget revisions to projected expenses</li> </ul>	Executive Director/CE0 Finance Finance Finance <b>Responsibility</b> Finance MAC Staff, Finance, & Senior Staff Finance Finance
<u>SEPTEMBER</u>	<ul> <li>Approve preliminary summary of capital assets requests</li> <li>Prepare summary of controllable expense requests and supporting schedules</li> <li>Compile revenue analysis and projections</li> <li>Complete revenue forecast</li> </ul> <b>Task</b> <ul> <li>Compile budget presentation information</li> <li>Distribute budget packages to airlines, State Legislature, and the F&amp;A Committee</li> <li>Present draft budget to MAC staff, F&amp;A Committee and the airlines</li> </ul>	Executive Director/CE0 Finance Finance Finance <b>Responsibility</b> Finance MAC Staff, Finance, & Senior Staff Finance

	Task	Responsibility
	<ul> <li>Present budget update to the F&amp;A Committee</li> </ul>	Finance & Senior Staf
	Revise budget as required	Finance
	<ul> <li>Present budget to airlines</li> </ul>	Finance
	Publish notice of CIP public hearing	Airport Development
NOVEMBER		
	Task	Responsibility
	<ul> <li>Present budget update to F&amp;A Committee</li> </ul>	Finance
	<ul> <li>Revise budget as required</li> </ul>	Finance
	Hold public hearing regarding CIP	Airport Development
DECEMBER		
	Task	Responsibility
	<ul> <li>Present preliminary notice of rate changes to all tenants</li> </ul>	Finance
	<ul> <li>Approve budget for recommendation to Full Commission</li> </ul>	F&A Committee
	Approve budget	Full Commission
	Approve final CIP	PD&E Committee
	<ul> <li>Distribute CIP to MAC Departments, Metropolitan Council, State Historical Society and affected communities</li> </ul>	Airport Development
MARCH		
	Task	Responsibility
	Complete Budget Document	Finance

#### **Amendment Process**

The process to amend the budget is set forth in the MAC Bylaws, Article IV, Section 8(a) and presented below:

"8(a) Establishment of the annual budget setting out anticipated expenditures by type of expenditure and/or upward or downward revision of that budget in the course of the corporation's fiscal year shall constitute prior approval of each type of expenditure. Authorization by vote of the Commission is required for transfer of budgeted amounts between or among line items or to appropriate additional funds for each line item. The Executive Director/Chief Executive Officer is directed to provide for the daily operation and management of the Commission within the expenditure guidelines of the annual budget. Commission approval of a contract shall constitute prior approval of the disbursements made pursuant to terms of the contract within the constraints of the budget for all contract payments, except final construction contract payments which shall require Commission approval.

The Executive Director/Chief Executive Officer shall have the responsibility of securing adequate quantities of office, janitorial, maintenance and repair materials and supplies, and the rent of sufficient equipment necessary for the smooth, continuous operation of the Commission's system of airports and all facilities associated with the system of airports. The Executive Director/Chief Executive Officer's authority to secure these items shall be subject to the Commission's purchasing procedures and be subject to the line-item budget constraints of the annual budget.

At any time during the fiscal year, the Executive Director/Chief Executive Officer may recommend to the full Commission that all or any unencumbered appropriation balances of individual line-items be transferred to those line-items that require additional budgeted funds. In addition, the Executive Director/Chief Executive Officer may recommend to the full Commission the appropriation of additional funds above and beyond those approved at the time of budget adoption."

The individual line-items will include the following:

Personnel Salaries & Wages Benefits Total Personnel

#### **Administrative Expenses**

**Professional Services** 

Utilities

Operating Services Parking Management Shuttle Bus Services Service Agreements Storm Water Monitoring Other Total Operating Services

#### Maintenance

Trades Building Field Equipment Cleaning Total Maintenance

#### Other

General Insurance Other Minor Equipment Total Other

#### Non-Operating Expenses Debt Service

Equipment Purchases Other Total Non-Operating Expenses

#### New Concessions Opened at MSP during 2016-2017



















#### Approved Summary of Operating and Non-Operating Revenue and Expense

The Commission approved the 2018 budget in December 2017. The following tables summarize revenue and expense, including non-operating revenue and expense, and compare the 2018 budget to the 2017 year-end estimate.

Metropolitan Airports Commission Operating & Non-Operating Summary											
2018 Budget											
										2018 Budge	ət
										VS	
										2017 Estima	te
		2016		2017		2017		2018		Dollar	%
		Actual		Budget		Estimate		Budget		<u>Change</u>	Change
OPERATING REVENUE											
Airline Rates & Charges											
Airline Agreement											
Landing Fees	\$	59,428,277	\$	63,808,136	\$	64,200,000	\$	67,137,865	\$	2,937,865	4.6%
Ramp Fees		7,407,993		7,557,247		7,510,000		7,489,093		(20,907)	-0.3%
Airline R&R		4,558,611		4,666,311		4,666,000		4,673,574		7,574	0.29
T1 Rentals		39,360,189		38,520,773		37,800,000		39,567,165		1,767,165	4.7%
T1 Other		5,935,241		6,301,094		6,900,000		6,131,467		(768,533)	-11.19
Concessions Rebate		(15,827,376)	_	(16,970,000)		(17,150,000)		(17,367,105)		(217,105)	1.3%
Total Airline Agreement		100,862,935		103,883,561		103,926,000		107,632,059		3,706,059	3.6%
T2 Lobby		8,607,924		9,742,003		9,950,000		10,358,269		408,269	4.1%
T2 Other /Passenger		3,182,298	_	2,837,017		2,900,000		3,320,267		420,267	14.5%
Total Airline Rates & Charges	\$	112,653,157	\$	116,462,581	\$	116,776,000	\$	121,310,595	\$	4,534,595	3.9%
Concessions											
Terminal											
Food & Beverage	\$	21,043,955	\$	22,857,000	\$	23,037,000	\$	24,022,753	\$	985,753	4.39
News		3,703,743		4,200,000		4,676,000		4,878,547		202,547	4.3%
Retail Stores		4,997,530		6,150,000		5,293,000		5,407,208		114,208	2.2%
Passenger Services	_	6,107,200		5,939,122	_	6,200,000	_	6,431,423	_	231,423	3.7%
Total Terminal		35,852,428		39,146,122		39,206,000		40,739,931		1,533,931	3.9%
Parking/Ground Transport											
Parking		91,234,678		100,702,000		96,300,000		97,469,494		1,169,494	1.2%
Ground Transportation		7,907,394		8,600,656		10,250,000		11,477,183		1,227,183	12.0%
MSP Employee Parking		3,652,905		3,645,708		4,158,136		4,158,136		0	0.0%
Auto Rental - On Airport	_	19,876,356		19,200,000	_	19,490,000	_	19,490,000	_	-	0.0%
Total Parking/Ground Transport		122,671,333		132,148,364		130,198,136		132,594,813		2,396,677	1.8%
Other Concessions		2,167,290	_	2,100,000		2,100,000		2,160,482		60,482	2.9%
Total All Concessions	\$	160,691,051	\$	173,394,486	\$	171,504,136	\$	175,495,226	\$	3,991,090	2.3%
Rentals & Fees											
Buildings & Facilities	\$	9,105,037	\$	9,376,150	\$	9,800,000	\$	11,071,914	\$	1,271,914	13.0%
Auto Rental CFC		21,924,370		21,850,000		21,850,000		21,850,000		0	0.0%
Ground Rentals		9,699,338		10,092,284		10,392,000		10,868,813		476,813	4.6%
Reliever Airports	_	7,744,487	_	7,303,336		7,500,000		8,034,970		534,970	7.1%
Total Rentals & Fees	\$	48,473,232	\$	48,621,770	\$	49,542,000	\$	51,825,697	\$	2,283,697	4.6%
Utilities & Other Revenues											
Utilities	\$	4,348,000	\$	5,048,955	\$	4,900,000	\$	4,866,563	\$	(33,437)	-0.7%
General Aviation/Airside Fees		4,269,967		3,936,900		3,975,000		4,228,978		253,978	6.4%
Consortium Fees		3,522,546		3,812,000		3,930,845		4,121,886		191,041	4.99
Other Revenues		2,135,776		1,700,000		2,000,000		1,823,936		(176,064)	-8.89
Reimbursed Expense		2,838,811		2,130,000	_	2,500,000		2,172,715		(327,285)	-13.19
Total Utilities & Other Revenue	\$	17,115,100	\$	16,627,855	\$	17,305,845	\$	17,214,078	\$	(91,767)	-0.5%
Total Operating Revenue	\$	338,932,540	\$	355,106,692	\$	355,127,981	\$	365,845,596	\$	10,717,615	3.0

#### Metropolitan Airports Commission **Operating & Non-Operating Summary** 2018 Budget 2018 Budget vs 2017 Estimate 2016 2017 2017 2018 Dollar % Actual Budget Estimate Budget Change Change Total Operating Revenue 338,932,540 \$ 355,106,692 \$ 355,127,981 \$ 365,845,596 \$ 10,717,615 3.0% \$ OPERATING EXPENSE 78,047,511 \$ 82,908,614 \$ 82,350,000 \$ 88,221,586 \$ 5,871,586 7.1% Personnel \$ 102,724 Administrative Expenses 1,722,678 1,964,430 1,963,250 2,065,974 5.2% Professional Services 6,217,338 6,681,338 6,600,000 7,050,439 450,439 6.8% Utilities 18,815,869 19,851,846 19,300,000 19,696,338 396,338 2.1% Operating Services/Expenses 23,389,443 26,416,717 26,225,000 28,955,363 2,730,363 10.4% 413,805 Maintenance 36,319,009 38,777,072 38,100,000 38,513,805 1.1% Other (906,452) -16.8% 4,410,851 4,171,951 5,400,000 4,493,548 Total Operating Expense 5.0% 168,922,699 180,771,968 179,938,250 \$ 188,997,053 9,058,803 \$ \$ \$ (Excludes Depreciation and Noise Amortization) Net Operating Revenue 0.9% \$ 170,009,841 \$ 174,334,724 \$ 175,189,731 \$ 176,848,543 \$ 1.658.812 2018 Budget vs 2017 Estimate % 2016 2017 2017 2018 Dollar Actual Budget Estimate Budget Change Change NON-OPERATING REVENUE (EXPENSE) Other Non-Operating Revenue 6,250,000 \$ Interest Income \$ 4,860,000 \$ 6,350,000 \$ 6,436,000 \$ 86,000 1.4% Self-Liquidating Income 4,576,000 4,654,000 4,654,000 4,902,000 248,000 5.3% \$ 9,436,000 11,338,000 334,000 3.0% \$ 10,904,000 \$ 11,004,000 \$ \$ Debt Service Short Term Financing \$ (2,172,000) \$ (1,967,000) \$ (2,223,000) \$ (2,426,000) \$ (203,000) 9.1% Bond Principal/Int-Operating Fund Transfer (89,975,000) (95,028,509) (90,725,000) (103,100,000) (12,375,000) 13.6% Equip Financing Principal/Int Pymts (2,950,000) (5,040,425) (4,977,000) (4,382,000) 595,000 -12.0% (11,983,000) \$ (95,097,000) \$ (102,035,934) \$ (97,925,000) \$ (109,908,000) \$ 12.2% Equipment Capital Expenditures \$ (987,000) \$ (999,371) \$ (985,000) \$ (1,112,000) \$ (127,000) 12.9% Equipment Purchases (9,345,000) (9,943,500) (9,943,500) (10,087,980)(144,480) 1.5% Baggage Handling System (9,081,000)---Passenger Facility Charge Revenue 9,081,000 ----Equipment Financing 3,194,000 3.779.000 3.779.000 3,465,000 (314.000)-8.3% (7,734,980) \$ 8.2% \$ (7,138,000) \$ (7,163,871) \$ (7,149,500) \$ (585, 480)Other Six Month Reserve Transfer (5,076,000) \$ (3,521,825) \$ (3,521,825) \$ (590,718)16.8% \$ (4, 112, 543)Interstate Settlement/Medicare D 420,000 105,000 120,000 130,000 10,000 8.3% Grant Reimbursements ---Easement Receipt Gain (Loss) on Equipment & Other 2,086,000 (2,125,000) 2,125,000 \$ (2,570,000) \$ (3,416,825) \$ (5,526,825) \$ (3,982,543) \$ 1,544,283 -27.9% Total Non-Operating Revenue (Expense) \$ (95,369,000) \$ (101,712,630) \$ (99,597,325) \$ (110,287,523) \$ (10,690,198) 10.7% Net Revenue Available for Designation \$ 74,640,841 \$ 72,622,094 \$ 75,592,406 \$ 66,561,021 (9,031,386) -11.9% \$

#### Summary of Operating Revenue and Expense (GAAP)

The following table is shown below for Generally Accepted Accounting Principles of the United States of America (GAAP) purposes. The financial statements are issued in conformance with GAAP. The "Basis of Budgeting" in this section explains the differences in the approved budget and the GAAP statement.

Metropolitan Airports Commission									
Operating & Non-Operating Summary GAAP Presentation Summary									
-									
2018 Budget									
(\$ in 000)								2010 Du	1004
								2018 Buo vs	iget
								2017 Estir	nate
OPERATING REVENUE		2016 Actual		2017 Budget	E	2017 Estimate	2018 Budget	Dollar <u>Change</u>	% <u>Change</u>
Airline Rates & Charges	\$	112,653	\$	116,463	\$	116,776	\$ 121,311	\$ 4,535	3.9%
Concessions		160,691		173,394		171,504	175,495	3,991	2.3%
Rentals/Fees		48,473		48,622		49,542	51,826	2,284	4.6%
Utilities & Other Revenues		17,115		16,628		17,306	 17,214	 (92)	-0.5%
Total Operating Revenue	\$	338,932	\$	355,107	\$	355,128	\$ 365,846	\$ 10,718	3.0%
OPERATING EXPENSE									
Personnel <sup>1</sup>	\$	94,425	\$	87,909	\$	87,350	\$ 93,222	\$ 5,872	6.7%
Administrative Expenses		1,723		1,964		1,963	2,066	103	5.2%
Professional Services		6,217		6,681		6,600	7,050	450	6.8%
Utilities		18,816		19,852		19,300	19,696	396	2.1%
Operating Services/Expenses		23,389		26,417		26,225	28,955	2,730	10.4%
Maintenance		36,319		38,777		38,100	38,514	414	1.1%
Other		4,411		4,172		5,400	4,494	(906)	-16.8%
Depreciation		139,226		145,202		144,500	 150,392	 5,892	4.1%
Total Operating Expense	\$	324,526	\$	330,974	\$	329,438	\$ 344,389	\$ 14,951	4.5%
Operating Gain (Loss)	\$	14,406	\$	24,133	\$	25,690	\$ 21,457	\$ (4,233)	16.5%
NON-OPERATING REVENUE (EXPENSE) & (	CON	NTRIBUTIO	NS						
Interest Income and Other	\$	15,577	\$	11,009	\$	12,082	\$ 11,800	\$ (282)	-2.3%
Passenger Facility Charges (PFCs)	\$	72,273	\$	73,276	\$	75,016	\$ 75,916	\$ 900	1.2%
InterestExpense	\$	(62,238)	\$	(55,413)	\$	(64,052)	\$ (62,000)	\$ 2,052	-3.2%
Capital Contributions & Grants	\$	4,003	\$	10,801	\$	6,000	\$ 3,025	\$ (2,975)	-49.6%
Total Non-Operating Revenue (Expense)	\$	29,615	\$	39,673	\$	29,046	\$ 28,741	\$ (305)	-1.0%
Change in Net Position	\$	44,021	\$	63,806	\$	54,736	\$ 50,198	\$ (4,537)	-8.3%

#### **Financial Policies**

The following Metropolitan Airports Commission Financial Policies are addressed:

- Operating Budget
- Cash Management/Investment
- Capital Projects
- Purchasing
- Debt Service and Reserve Policies

The Commission utilizes these policies to provide structure and to ensure the development of the budget meets the MAC's mission, vision and values:

### Financial Policies – Operating Budget

The Metropolitan Airports Commission uses the budget process to help plan for the future, ensure customer service and satisfaction, and maintain effective cost management and overall performance. The following represent the basic Operating Budget Policies under which the Operating Budget was prepared:

### A. Operating Budget Policies

- 1. The Commission will pay all current expenditures from current revenues.
- 2. The Budget shall be prepared under the accrual basis of accounting.
- 3. The Operating Budget will be submitted with operating and non-operating revenue to exceed operating and non-operating expenses with a sufficient margin to provide for replacement of property, plant, and equipment.
- 4. The budget will provide for adequate funding of all retirement systems.
- 5. The Finance Department will assist service centers in reviewing monthly variance reports comparing actual versus budget revenue and expense on the financial software system.
- 6. The budget will provide summary information using the Operating Fund, Construction Fund, and Debt Service Fund projected for the next three years.
- 7. Where possible, the Commission will integrate performance measurement and/or efficiency indicators in the budget.
- 8. Department heads will review monthly reports comparing actual revenues and expenses to budgeted amounts. Any variance in expense (spending category or capital expenditures for their department as a whole projected to exceed \$100,000 by year-end) will be reported in writing to the Director of Finance and the Executive Director/Chief Executive Officer.

### B. Budget Targets

The Commission will adopt budget targets to provide direction to staff in the preparation of the annual Operating Budget for the upcoming year. Budget targets may be established in the areas of non-airline revenue, operating expense (less depreciation), total airline charges and debt service coverage ratios. Targets will be developed taking into account items such as the Capital Improvement Program, the rate of inflation, the state of the airline industry, and existing labor and vendor contracts. To allow for public input into the Operating Budget, the following will occur:

- 1. When targets are presented to the Commission, final adoption will occur no earlier than the following month. Targets will be presented no later than May of the preceding budget year.
- 2. A draft of the Operating Budget must be presented to the Commission and mailed to the appropriate legislative committees ninety days prior to anticipated budget approval.

### C. Operating Reserve

The Operating Reserve was established by the Finance & Administration Committee at six months of operating expenses less depreciation. The 2018 operating budget expenses are \$189.0 million with the reserve account reflecting a balance of \$94.5 million or six months of expenses. If the Commission deems it appropriate to reduce the operating reserve for the portion above the formula amount, such reductions shall not exceed 50% of the excess in any one year. In the event of a revenue shortfall in a current budget year, the Executive Director/Chief Executive Officer could freeze new hires, reduce temporary work force, defer cost of living wage increases, reduce discretionary spending, decrease capital and project expenditures, and may recommend a transfer from the Commission's operating reserve.

### D. Revenue

The Commission monitors revenues on a monthly basis to ensure revenue from each source is at the maximum, with deviations from budget identified.

- 1. One-Time Revenues include, but are not limited to, grants and rebates. Grants are accounted for as contributions while rebates are accounted for as miscellaneous operating revenue. This revenue generated will become available to the Construction Fund, Capital equipment purchases, or other one-time expenditures as approved by the Commission.
- 2. Revenue Diversification is a Commission policy. The Commission maintains a diversified revenue system which is consistently monitored to help protect from possible short-term fluctuations.
- 3. Although the Commission has the ability to levy ad valorem property taxes upon properties at the airport and, under certain circumstances, upon all taxable property within the Metropolitan Area, the Commission is not currently levying taxes for these purposes. Rentals, rates and charges and other fees will be sufficient to meet all operational and maintenance expenses.

#### Basis of Budgeting

The annual Operating Budget is prepared based on targets established by the Commission. The MAC uses the accrual basis of accounting for budgeting. The accrual basis of accounting in the operating budget contains certain elements that are not expensed under GAAP such as debt service and reserve requirements. In addition, the budget excludes depreciation, noise amortization, and GASB 68 pension expense while these expenses are included on the financial statements.

The Commission operates as an Enterprise Fund with three segregated areas: Operating Fund (used for day to day operations), Debt Service Fund (used to pay required debt principal and interest payments), and Construction Fund (used to pay capital costs associated with the Capital Improvement Program).

An Enterprise Fund may be used to "report any activity for which a fee is charged to external users for goods or services." GASB-34 states that an Enterprise Fund *must* be used to account for an activity if any one of the following criteria is satisfied (GASB-34, par. 67):

- The activity is financed with debt that is secured *solely* by a pledge of the net revenues from fees and charges of the activity.
- Laws or regulations require that the activity's costs of providing services, including capital costs (such as depreciation or capital debt service) be recovered with fees and charges, rather than with taxes or similar revenues.
- The pricing policies of the activity establish fees and charges designed to recover its costs, including capital costs (such as depreciation or debt service).

Each year the Finance Department projects revenue for the upcoming budget year with the assistance of Airport Development, Landside-Administration, Reliever Airports, Concessions and Commercial Management Departments.

#### Accrual Basis of Accounting

The budgets for all three Segregated Funds identified above are prepared using the accrual basis of accounting in accordance with GAAP (Generally Accepted Accounting Principles) as this is the same method used for MAC accounting. The accrual basis of accounting attempts to record financial transactions in the period they occur rather than recording them in the period they are paid. In addition, the audited fund financial statements are also produced using the same accrual method of accounting. Strictly speaking, the accrual basis of accounting is described as follows:

Accrual accounting attempts to record the financial effects on an enterprise of transactions and other events and circumstances which have cash consequences for an enterprise in the periods in which those transactions, events and circumstances occur, rather than only in the periods in which cash is received or paid by the enterprise. Accrual accounting is concerned with the process by which cash expended on resources and activities is returned as more (or perhaps less) cash to the enterprise, not just with the beginning and end of that process.

### **Balanced Budget**

Minnesota Statute 473.661, Subd. 1 refers to the general law regarding expenditure of public funds for public purposes. The appropriate Minnesota Legislative Committee and the public provide input prior to the budget approval. By December of each year, the Commission will adopt an annual balanced budget, defined as all revenues and non-operating revenues exceeding expenses and non-operating expenditures in all funds. Yearend operating surpluses will be used in maintaining reserves and may be available to the Construction Fund for capital projects as approved by the Commission.

#### Use of Estimates

The use of 2017 estimates in the reporting of the 2018 budget financial statements is based upon assumptions and estimates at the time of completion of the final budget draft. Actual results could differ from those estimates.

#### Budget Monitoring

Throughout the year the budget is monitored and compared to actual expenses. Various service centers utilize controls. For example, Purchasing verifies requisitions and budget amounts and Human Resources compares wages and hiring with the budgets along with managers responsible for their service center budgets. Reports are distributed monthly to the Commissioners.

### Financial Policies – Cash Management/Investment

The Cash Management/Investment Policies are as follows:

#### Investment/Cash Management Policies

- 1. Cash Management
  - All securities are safekept at one institution.
  - All deposits must be insured or collateralized.
- 2. Investments
  - All investment purchases require bids to be taken from several different dealers.
  - Investments purchased will be diversified under legal requirements trying to maximize the rate of return.
  - The average rate of return on MAC managed investments will exceed the six-month Treasury Bill.
  - All repurchase agreements are required to be collateralized. The maturity of any investment shall not exceed four years (average portfolio life of no greater than 12 years for post-retirement medical funds).
  - To the extent possible, the MAC will attempt to match its investments with anticipated cash flow requirements.
  - The addition of new accounts shall require the written authorization of the Director of Finance and Executive Director/Chief Executive Officer.
- 3. Collateral
  - Collateral must always be held by an independent third party with whom the MAC has a custodial agreement.
  - A clear marked evidence of ownership (safekeeping) must be supplied to the entity and retained.
  - To the extent that funds deposited are in excess of the available Federal Deposit Insurance, the MAC shall require the financial institutions to furnish collateral, security, or corporate surety bond executed by a company authorized to do business in the State.

### Financial Policies – Capital Projects

Each year, the Commission reviews, revises, and approves capital projects that will start within the next twelve months and adopts a Capital Improvement Program (CIP) which covers all projects to be started during the second calendar year. Commission approval authorizes staff to proceed with plans and specifications and to obtain bids for contract award by the Commission. In addition, a CIP that covers an additional five years is adopted. These serve as a basis for determining funding requirements and other operational planning decisions. The Commission's policy is to include in the CIP those projects which enable the Commission to maximize federal aid, enhance safety, and those that are customer service oriented. Projects which have a metropolitan significance are also submitted to the Metropolitan Council for review and approval. The

Metropolitan Council is a regional planning agency responsible for coordinating and planning certain governmental services for the metropolitan area.

#### Projects

Commission policies for Capital Projects:

- 1. Are safety and customer service oriented;
- 2. Maximize all federal aid;
- 3. Require Metropolitan Council approval on Reliever Airport projects in excess of \$2 million and MSP International projects in excess of \$5 million if they are viewed as having a metropolitan significance;
- 4. Include project priority categories, in order of importance:
  - Projects which the Commission has made a commitment to complete
  - Projects that enhance or ensure continued safety at each of the airports in the airport system
  - Projects that cannot be accomplished by Commission maintenance crews but are essential for reasons of economics or continued operation
  - Projects that are necessitated by regulatory requirements, such as FAA regulations and local, state, or federal laws
  - Projects which address various environmental issues ranging from asbestos abatement to wetland mitigation
  - Projects constituting preventative maintenance
  - Projects which improve customer service and/or convenience
  - Projects which have been identified as improving various operational aspects of the airport system, whether applicable to aircraft, tenants, Commission staff, or off-airport service providers
  - Estimated useful life of a capital improvement project typically range from 5 to 40 years.

### Capital Equipment

All equipment purchases for 2018 will be accounted for based on thr MAC's capital equipment guidelines:

- 1. The total cost of each piece of equipment is amortized over its useful life through depreciation charges.
- 2. Snow plowing equipment qualifies for state and federal aid. Total eligible aid is limited.
- 3. Aid for equipment purchases must compete with eligible construction projects.
- 4. All equipment purchases must follow the MAC's purchasing policies.
- 5. All equipment or project costs must be greater than or equal to \$10,000.
- 6. Estimated useful life for capital equipment ranges from 3 to 15 years.

### Financial Policies – Purchasing

The Purchasing Department is responsible for the purchase, rental, sale, and disposal of equipment, supplies, minor construction, repair, or maintenance of real and/or personal property for the MAC. Its primary responsibility is to provide purchases that ensure the following: 1) availability; 2) quality; and 3) price consistency with the needs of the MAC. The Purchasing objective is to provide a foundation for effective, consistent, and complete consideration of all aspects of purchasing including:

- 1. Ensuring fair and equitable treatment of all suppliers and persons who deal with the MAC's procurement system
- 2. Fostering public confidence in the procurement procedures followed by the MAC
- 3. Ensuring compliance with applicable state and federal laws
- 4. Securing the advantages and economies derived from a centralized and standardized purchasing system
- 5. Promoting the use of modern, professional, and ethical business methods when using public funds to secure supplies, materials, equipment (or the rental thereof) or the minor construction, alteration, repair or maintenance of real or personal property.

### Financial Policies – Debt Service and Reserve Policies

The Debt Service and Reserve Policies are as follows:

### A. Debt

- 1. Currently the Commission is able to issue General Obligation Revenue Bonds and General Airport Revenue Bonds, both fixed and variable rate.
- 2. Funds will be managed to avoid any property tax levy.
- 3. The MAC will maintain the highest rating available from Fitch, Moody's, and/or Standard and Poor's Rating Agencies.
- 4. Procedures/mechanisms will be developed and maintained to obtain the highest possible rating on the General Airport Revenue Bonds.
- 5. All refundings of General Obligation Revenue Bonds or Airport Revenue Bonds must show a minimum 3% Net Present Value (NPV) savings as specified in Minnesota Statute Section 475.67, Subdivision 12.
- 6. The current remaining authorized level of issuance for General Obligation Revenue Bonds is \$55 million.
- 7. The MAC will endeavor to keep the total maturity length of General Obligation Bonds below 20 years and retire at least 50% of the principal within 10 years. In all cases, the maturity shall be shorter than the life of the related assets.
- 8. Regarding Special Facility Bonds, staff will adhere to Administrative Policy 2701 dealing with Special Facility Financing.
- 9. In December 2003, the Commission approved a policy to deal with derivative financing products. The Commission, along with its Financial Advisor and Bond Counsel, refined this policy further in July 2004. The refinements include establishing separate savings criteria and efficiency criteria in dealing with derivative financing products.
- **B. Reserve** The Commission is required to have a restricted investment balance on October 10 each year for General Obligation Revenue Bonds in an amount sufficient to cover debt service to the end of the second following year. For General Airport Revenue Bonds, a one-year maximum annual debt service reserve is required.
- C. Debt Limits Currently the Commission has three forms of indebtedness: Revolving Line of Credit, General Airport Revenue Bonds (GARBs), and General Obligation Revenue Bonds (GORBs). The GORB instrument has the most straightforward legal limit. That is, the Commission must receive Legislative approval to authorize and issue this type of debt. Currently the Commission is authorized to issue up to \$55 million of additional GORB debt. With regard to Revolving Line of Credit, the total authorized limit is currently \$75 million. The legal limit for GARBs is based on the Commission's ability to generate sufficient revenues to pass the Additional Bonds Test required under the Master Bond Indenture. As long as there are adequate revenues to pass the test, additional debt can be issued.

### **Compliance Statement**

The Metropolitan Airports Commission is in compliance with all of the above stated policies.

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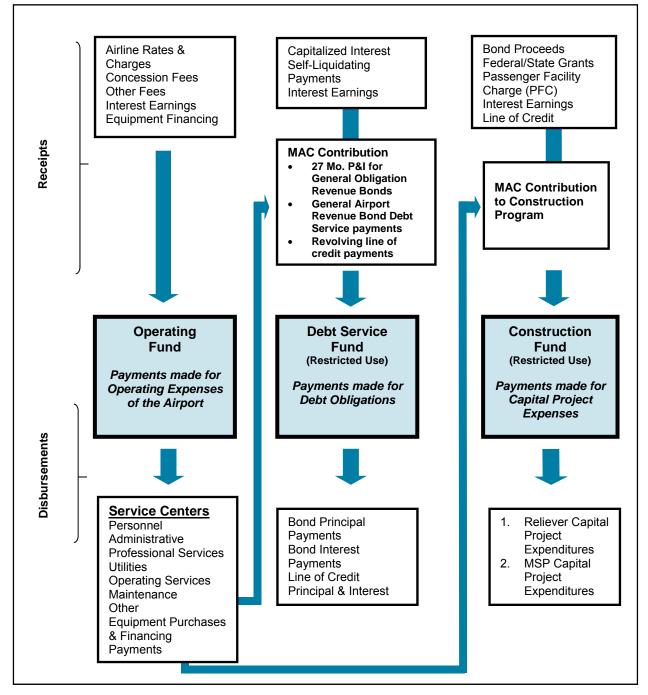
# Fund Structure

The MAC is accounted for as an Enterprise Fund. An Enterprise Fund reports any activity for which a fee is charged to external users for goods or services. Amounts are restricted, internally or externally, for construction and debt redemption. For internal purposes, The MAC maintains three funds corresponding to three major functions: Operating Fund, Construction Fund, and Debt Service Fund. The budgets for all three segregated funds identified here are prepared using the accrual basis of accounting in accordance with (GAAP) Generally Accepted Accounting Principles and is the same method used for MAC accounting.

Service center expenses are within the Operating Fund as shown in the below chart.

### Fund Relationship

The Flow of Funds chart below identifies the sources and uses of dollars within each fund and between funds.



### Fund Balance Summary

The table below is presented to show the general overview of the flow of funds and the amount of dollars moving through each fund on an annual basis. The details for each fund are shown in their respective sections of the budget.

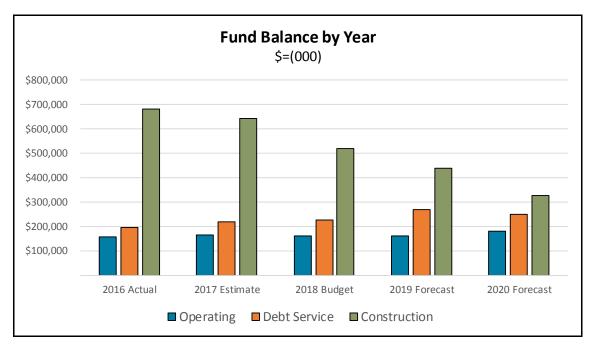
(\$ = 000)												
(*)		2016		2017		2017		2018		2019		2020
		Actual		Budget	E	stimate	ļ	Budget	P	rojection	P	rojection
OPERATING FUND												
1/1 Balance	\$	133,912	\$	154,149	\$	158,998	\$	165,476	\$	160,428	\$	160,640
Total Sources of Funds		351,562		369,895		369,911		380,649		391,927		407,304
Total Uses of Funds		(326,476)		(361,082)		(363,433)		(385,697)		(391,715)		(387,42
Transfers		-		-		-		-		-		-
Ending Balance	\$	158,998	\$	162,962	\$	165,476	\$	160,428	\$	160,640	\$	180,515
CONSTRUCTION FUND												
1/1 Balance	\$	368,365	\$	688,408	\$	680,530	\$	642,353	\$	521,227	\$	438,95
Total Sources of Funds		539,125		177,124		191,766		196,647		170,806		170,81
Total Uses of Funds		(226,960)		(354,450)		(229,943)		(317,773)		(253,078)		(282,79
Ending Balance	\$	680,530	\$	511,082	\$	642,353	\$	521,227	\$	438,955	\$	326,97
DEBT SERVICE FUND												
1/1 Balance	\$	227,487	\$	251,930	\$	196,054	\$	219,629	\$	226,354	\$	270,36
Total Sources of Funds		766,447		113,435		120,458		129.625		178,098		129,670
Total Uses of Funds		(797,880)		(122,557)		(96,883)		(122,900)		(134,083)		(151,470
Ending Balance	\$	196,054	\$	242,808	\$	219,629	\$	226,354	\$	270,369	\$	248,569
TOTAL ALL FUNDS												
1/1 Balance	\$	729,764	\$	1,094,487	\$	1,035,582	\$	1,027,458	\$	908,009	\$	869,964
Total Sources of Funds	•	1,657,134	Ť	660.454	·	682.135	*	706,921	۴	740,831	r	707,78
Total Uses of Funds		1,351,316)		(838,089)		(690,259)		(826,370)		(778,876)		(821,69
Transfers	`	-		-		-		-		-		-
Ending Balance	\$	1,035,582	\$	916,852	\$ `	,027,458	\$	908,009	\$	869,964	\$	756,05

Funds are described in detail and show all sources/uses of funds in their respective sections of the document.

The overall change in the Operating Fund balance from estimated 2017 (\$165 million) to projected 2020 (\$181 million) increases by \$16 million. Increases in operating revenues, primarily concessions, are keeping up in increases in operating expenses as well as additional debt service requirements associated with the new debt issue in 2016.

A change occurs in the Construction Fund from a high of \$681 million in 2016 to a low of \$327 million in 2020. In order to implement a \$713 million Capital Improvement Program (CIP) from 2018-2020, the Commission sold \$402 million bonds in 2016 and anticipates selling another \$100 million in 2019. The remainder of the CIP will be financed with PFCs, Federal grants and State grants, utilizing the Commission's short-term borrowing program as well as funds generated from operations.

The Debt Service Fund is expected to increase from a low of \$196 million in 2016 to a high of \$270 million in 2019. The increases from 2016 to 2017 estimate are a result of a new debt issue in 2016 partially offset by the savings associated with the 2016 bond refunding issue. The increase in fund balance in 2019 is a result of the new 2019 bond issue. For new money bond issues, the Commission typically borrows the capitalized interest portion of that bond issue to cover the interest payments due on the debt during the period of construction. Upon completion of the associated project, the Commission will start to collect from the users of the airport the debt service requirements.



### Taxing Authority

The Commission has the ability to levy ad valorem property taxes upon properties at the Airport and, under certain circumstances, upon all taxable property within the Metropolitan Area. Such taxing authority includes:

- 1. The power to levy property taxes on land leased at the Airport for police and fire protection, operation, and maintenance of roadway systems.
- 2. The power to levy property taxes not in excess of .00806 percent in each year upon the net tax capacity of all taxable property in the Metropolitan Area for Airport operation and maintenance costs of Airport facilities, provided revenues are not otherwise available.

Although the Commission may levy property taxes for operation and maintenance expenses, the Commission is not currently levying taxes for these purposes. The Commission has entered into agreements, in accordance with the Airport Law and the Resolution, whereby rental received by the Commission, together with other charges, rates, and fees imposed by the Commission, are sufficient to meet all expense of operation and maintenance of the Commission's property.

If the Commission were to have levied a tax based on recent values, the maximum amount available for maintenance and operations of the Commission would have been approximately \$25.0 million.

### Sources and Uses of Funds

In this section, revenues and expenses from operating the facilities are combined with non-operating revenues and expenses. The summary on the following page illustrates how dollars are received and disbursed.

OPERATING FUND (\$ = 000)		2016		2017		2017		2018		2019		2020
		Actual	ļ	Budget	E	stimate		Budget	P	rojection	P	rojection
Sources												
1/1 Balance	\$	133,912	\$	154,149	\$	158,998	\$	165,476	\$	160,428	\$	160,640
Operating Revenues												
Airline Rates & Charges		112,653		116,463		116,776		121,311		126,770		128,291
Concessions		160,691		173,394		171,504		175,495		178,829		190,811
Other Operating Revenues		65,588		65,250		66,848		69,040		70,628		72,252
Subtotal Operating Revenues	\$	338,932	\$	355,107	\$	355,128	\$	365,846	\$	376,227	\$	391,354
Other/Non Operating Revenues												
Interest Earnings <sup>1</sup>		4,860		6,250		6,350		6,436		6,500		6,550
Self-Liquating Revenue		4,576		4,654		4,654		4,902		5,200		5,400
Transfer from Construction Fund		-		-		-		-		-		-
Gain (Loss) on Assets and Other		-		105		-		-		-		-
Subtotal Other/Non Operating Revenue		9,436		11,009		11,004		11,338		11,700		11,950
Total Sources	\$	348,368	\$	366,116	\$	366,132	\$	377,184	\$	387,927	\$	403,304
Uses												
Operating Expenses												
Personnel	\$	78,048	¢	82,909	\$	82,350	¢	88,222	¢	91,486	¢	94,871
Administration	φ	1,723	φ	1,964	φ	1,963	φ	2,066	φ	2,116	φ	2,167
Professional Services		6,217		6,681		6,600		7,050		7,262		7,480
Utilities		18,816		19,852		19,300		19,696		20,444		21,057
Operating Services		23,389		26,417		26,225		28,955		30,432		31,223
Maintenance		36,319		38,777		38,100		38,514		39,515		40,542
Other/Insurance		4,411		4,172		5,400		4,494		4.602		4,712
Subtotal Operating Expenses	\$	168,923	\$	180,772	\$	179,938	\$	188,997	\$	195,857	\$	202,052
Non Operating Expenses												
Equipment Equipment Purchases/Capital Expenditures		(10,332)		(10,943)		(10,929)		(11,200)		(11,145)		(11,180
Equipment Financing		3,194		3,779		(10,929) 3,779		3,465		4,000		4,000
Principal/Interest-Equip. Financing		(2,950)		(5,040)		(4,977)		(4,382)		(4,232)		(4,441
Subtotal Equipment	\$	(10,088)	¢	(12,204)	\$	(12,127)	\$	(12,117)	¢	(11,377)	\$	(11,621
Debt Service	Ψ	(10,000)	φ	(12,204)	φ	(12,127)	φ	(12, 117)	ψ	(11,577)	φ	(11,021
Transfer Out - Debt Service		(92,147)		(96,996)		(92,948)		(105,526)		(113,920)		(109,041
Subtotal Debt Service		(92,147)		(96,996)		(92,948)		(105,526)		(113,920)		(109,041
Total Uses	\$	(271,158)	\$	(289,972)	\$	(285,013)	\$	(306,640)	\$	(321,154)	\$	(322,714
	Ψ	(211,100)	Ψ	(200,012)	Ψ	(200,010)	Ψ	(000,040)	Ψ	(021,104)	Ψ	(022,114
Unrestricted Net Transfer Out-Construction		(52,124)		(67,331)		(74,641)		(75,592)		(66,561)		(60,715
Operating Fund Balance	\$	158,998	\$	162,962	\$	165,476	\$	160,428	\$	160,640	\$	180,515
	-	,	•	- ,	•	, -	•	,	•	,		,
<sup>1</sup> Interest Rate Assumed 1.5% for 2018 - 2020												

### Sources of Funds

Generally, there are three sources of revenues within the Operating Fund.

- 1. The 1/1 Balance reflects the Operating Reserve established by the Commission plus the amount to be transferred to the Construction Fund in the following year. In 2006 the Commission established a six month reserve of operating expenses. The operating reserve figure for 2018 is \$94.5 million.
- 2. Operating Revenues consist of Airline Rates and Charges, Concessions, Rentals/Fees, Utilities, and Other Revenues. The changes in each of these areas are explained in detail in the Operating Budget Revenue Section. In general, Airline Rates and Charges will increase beginning in 2018 as a result of inflationary increases as well as increases in headcount. Concessions rose in almost all areas as a result of increases in (a) passenger activity, (b) parking rates and (c) opening of new concession concepts in 2018 and 2020. Rentals/Fees, Utilities, and Other Revenues increases can be attributed to rent changes, primarily a new ground rental ordinance that became effective in July 2016, a hotel facility charge starting in 2018, as well as an increase in rental rates for space leased to non-airline tenants. Operating Revenues total \$365.8 million for 2018.

3. Other Non-Operating Revenues consist of Interest Earnings, Self-Liquidating Revenue and Gain/Loss on Disposal of Assets and Other Sources. Interest Earnings is assumed to be 1.5% for the period 2018-2020. Interest is earned on the balance in the Operating Fund which includes self-liquidating leases. Interest earnings are increasing slightly due to a small increase in interest rates and larger cash balances. Self-liquidating leases are those facilities built by MAC and then leased to tenants.

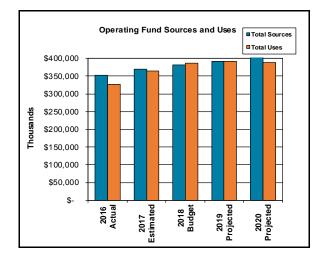


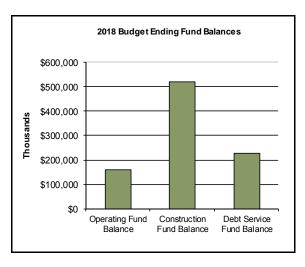
#### Uses of Funds

In general, there are three uses of operating revenues.

MSP Terminal 1-Lindbergh Retail Shops

- 1. Operating expenses consist of Personnel, Administration, Professional Services, Utilities, Operating Services, Maintenance, and Other/Insurance. Details of changes for each of these areas are identified in the Operating Budget Expense section. The total expense for 2018 is \$189.0 million.
- 2. Non-Operating Expenses is comprised of an Equipment section and Debt Service section.
  - A. Equipment includes capital equipment (cost greater than \$10,000) to be purchased based on Commission approval. The anticipated amount for 2018 is \$10.1 million and includes other capital expenditures. A portion of this equipment will be leased. The offset to the equipment is shown as Equipment Financing (\$3.5 million). Finally, the actual lease financing cost and miscellaneous other capital expenditures are shown.
  - B. Debt Service Transfers are required to cover all debt service. In June and December, the Commission must transfer the required amount for the General Airport Revenue Bond (GARB) reserve. The debt service portion also includes payments on the Commission revolving line of credit. The total payments for the GARB's and the revolving line of credit are expected to be approximately \$105.5 million.
- 3. Unrestricted Net Transfer Out Construction represents the amount of internally generated funds that are transferred to the Construction Fund after payment of all operating expenses have been made, all debt service requirements accounted for and the Operating Reserve is funded at six months of Operating Expenses. \$74.6 million is anticipated for 2018 based on 2017 estimates and \$75.6 million anticipated for 2019 based on 2018 budgeted amounts.





The graphs below illustrate the sources and uses of revenue and the three 2018 budgeted fund balances.

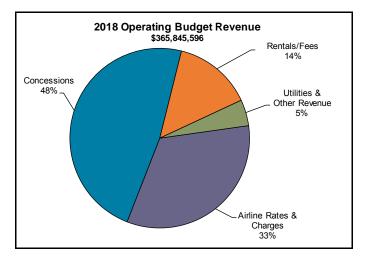
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# **Operating Budget Revenue**

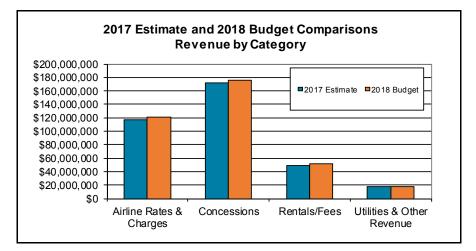
Total Operating Budget Revenue for 2018 is \$365.8 million, which is a \$10.7 million or 3.0% increase compared to 2017 estimates. The detailed explanations for Airline Rates & Charges, along with other major changes in revenue, are included in this section.

Operating budget revenue is divided into four categories: Airline Rates & Charges, Concessions, Rentals/Fees, and Utilities & Other Revenue.

Revenue Summary (\$=000)					2018 Budge vs 2017 Estimat						
	2016 Actual	2017 Budget	2017 Estimate	2018 Budget	Dollar Change	% Change					
REVENUE	, lotuui	Daagot		Daagot	enange	onungo					
Airline Rates & Charges	\$112,653	\$116,463	\$116,776	\$121,311	\$4,535	3.9%					
Concessions	160,691	173,394	171,504	175,495	3,991	2.3%					
Rentals/Fees	48,473	48,622	49,542	51,826	2,284	4.6%					
Utilities & Other Revenue	17,115	16,628	17,306	17,214	(92)	-0.5%					
Total Operating Revenue	\$338,933	\$355,107	\$355,128	\$365,846	\$10,718	3.0%					



The following chart compares 2017 estimate and 2018 budget revenue by category:



# 2018 Operating Revenue

	2016 Actual	2017 Budget	2017 Estimate	2018 Budget	Dollar Change	% Change
- Airline Rates & Charges						
Airline Agreement						
Landing Fees	59,428,277	63,808,136	64,200,000	67,137,865	2,937,865	4.6%
Ramp Fees	7,407,993	7,557,247	7,510,000	7,489,093	(20,907)	-0.3%
Airline R&R	4,558,611	4,666,311	4,666,000	4,673,574	7,574	0.2%
T1 Rentals	39,360,189	38,520,773	37,800,000	39,567,165	1,767,165	4.7%
T1 Other	5,935,241	6,301,094	6,900,000	6,131,467	(768,533)	-11.1%
Concessions Rebate	(15,827,376)	(16,970,000)	(17,150,000)	(17,367,105)	(217,105)	0.0%
Total Airline Agreement	100,862,936	103,883,561	103,926,000	107,632,059	3,706,059	3.6%
Terminal 2 Fees						
T2 Lobby	8,607,924	9,742,003	9,950,000	10,358,269	408,269	4.1%
T2 Other/Passenger	3,182,298	2,837,017	2,900,000	3,320,267	420,267	14.5%
Total Airline Rates & Charges	112,653,158	116,462,581	116,776,000	121,310,595	4,534,595	3.9%
Concessions						
Terminal						
Food & Beverage	21,043,955	22,857,000	23,037,000	24,022,753	985,753	4.3%
News	3,703,743	4,200,000	4,676,000	4,878,547	202,547	4.3%
Retail Stores	4,997,530	6,150,000	5,293,000	5,407,208	114,208	2.2%
Passenger Services	6,107,200	5,939,122	6,200,000	6,431,423	231,423	3.7%
Total Terminal	35,852,429	39,146,122	39,206,000	40,739,931	1,533,931	3.9%
Parking/Grnd Transport						
Parking	91,234,678	100,702,000	96,300,000	97,469,494	1,169,494	1.2%
Ground Transportation	7,907,394	8,600,656	10,250,000	11,477,183	1,227,183	12.0%
MSP Employee Parking	3,652,905	3,645,708	4,158,136	4,158,136	0	0.0%
Auto Rental - On Airport	19,876,356	19,200,000	19,490,000	19,490,000	0	0.0%
Total Parking/Grnd Transport	122,671,332	132,148,364	130,198,136	132,594,813	2,396,677	1.8%
Other						
Other Concessions	2,167,290	2,100,000	2,100,000	2,160,482	60,482	2.9%
Total Concessions	160,691,051	173,394,486	171,504,136	175,495,226	3,991,090	2.3%
Rentals/Fees						
Buildings & Facilities	9,105,037	9,376,150	9,800,000	11,071,914	1,271,914	13.0%
Auto Rental CFC	21,924,370	21,850,000	21,850,000	21,850,000	0	0.0%
Ground Rentals	9,699,338	10,092,284	10,392,000	10,868,813	476,813	4.6%
Reliever Airports	7,744,487	7,303,336	7,500,000	8,034,970	534,970	7.1%
Total Rentals/Fees	48,473,232	48,621,770	49,542,000	51,825,697	2,283,697	4.6%
Utilities & Other Revenue						
Utilities	4,348,000	5,048,955	4,900,000	4,866,563	(33,437)	-0.7%
GA/Airside Fees	4,269,967	3,936,900	3,975,000	4,228,978	253,978	6.4%
MCD Fees	3,522,546	3,812,000	3,930,845	4,121,886	191,041	4.9%
Other Revenues	2,135,776	1,700,000	2,000,000	1,823,936	(176,064)	-8.8%
Reimbursed Expense	2,838,811	2,130,000	2,500,000	2,172,715	(327,285)	-13.1%
Total Utilities & Other Revenue	17,115,100	16,627,855	17,305,845	17,214,078	(91,767)	-0.5%
Total Operating Revenue	338,932,541	355,106,692	355,127,981	365,845,596	10,717,615	3.0%
	300,332,341	555,100,032	555,127,501	500,0-10,000		0.070

### **Revenue Assumptions and Guidelines**

The revenue projections for 2018 are based on the following assumptions and guidelines:

- Revenue will be prepared on an accrual basis. This basis of accounting attempts to record financial transactions in the period in which they occur, rather than recording them in the period in which they are received. The Commission uses this method for both accounting and budgeting.
- The revenue projections are based on estimates compiled from the following sources:
  - Lease agreements
  - Contracts
  - Projected enplaned passengers and operations activity provided by the airlines and other users of MAC facilities
  - Expense projections, which determine Airline Rates and Charges
  - Historical trends
  - MAC Ordinances
- Airline Rates and Charges are based on the Airline Use Agreement.

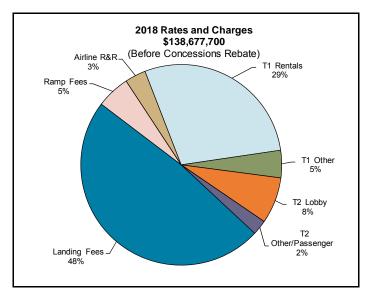
The explanations for revenue assumptions are based on a comparison of 2018 budget figures versus 2017 estimates.

### Airline Rates and Charges

The Airline Rates and Charges category, which is approximately \$121.3 million or 33% of the MAC's \$365.8 million in revenues, is generated from rates charged to the airlines. This category is projected to increase \$4.5 million or 3.9% from 2017 estimated levels. The formulas for the rates are established in the Airline Use Agreement and are composed of landing fees, ramp fees, airline Terminal 1-Lindbergh rental rates, and the Terminal 1 International Arrivals Facility (IAF) use fees. This agreement incorporates debt service in the calculation of rates and charges, instead of depreciation and interest, for the recovery of capital improvements. In accordance with this Agreement, expenses from Police, Fire, Maintenance Labor, Maintenance Equipment, and Administration service centers are allocated to the Field & Runway, Ramp, Terminal Building, and International Arrivals Facility service centers, as detailed in the Operating Budget Expense section. Total costs plus allocations are then used to determine Airline Rates and Charges. Fluctuations in allocated costs can cause a change in the airline rates. For 2018, rates for landing fees, ramp fees, and airline Terminal 1 rental rates are calculated as per the Airline Use Agreement. Rates for Terminal 2 are set by ordinance, which is primarily based on the recovery of budgeted operating and maintenance costs. The Concessions Rebate of \$17.4 million represents the revenue sharing found in the Airline Use Agreement.

2018 Airline Rates and Charges (\$=000)					2018 Budget vs 2017 Estimate			
	2016	2017	2017	2018	Dollar	%		
	Actual	Budget	Estimate	Budget	Change	Change		
Airline Rates & Charges								
Landing Fees	\$59,428	\$63,808	\$64,200	\$67,138	\$2,938	4.6%		
Ramp Fees	7,408	7,557	7,510	7,489	(21)	-0.3%		
Airline R&R	4,559	4,666	4,666	4,674	8	0.2%		
T1 Rentals	39,360	38,521	37,800	39,567	1,767	4.7%		
T1 Other	5,935	6,301	6,900	6,131	(769)	-11.1%		
Concessions Rebate	(15,827)	(16,970)	(17,150)	(17,367)	(217)	1.3%		
T2 Lobby	8,608	9,742	9,950	10,358	408	4.1%		
T2 Other/Passenger	3,182	2,837	2,900	3,320	420	14.5%		
Total Airline Rates & Charges	\$112,653	\$116,463	\$116,776	\$121,311	\$4,535	3.9%		

The following pie chart indicates the percentage of each revenue source in Airline Rates & Charges and compares it to the total Airline Rates & Charges revenue, excluding the Concessions Rebate.



### Landing Fees

The landing fee is based upon total estimated expense in the Field & Runway service center. By dividing total field and runway expenses by the estimated landed weight (provided by the airlines and historical data), a budgeted landing fee is established for use during the year. This is a residual (breakeven) calculation. At yearend, an adjustment will be made for any overage or shortage.

The landing fee is expected to increase \$0.07 in 2018 from 2017 estimates. Higher labor, benefits, security, snow removal material costs, and airline contributions for field and runway repair and replacement contributed to the higher landing fee.

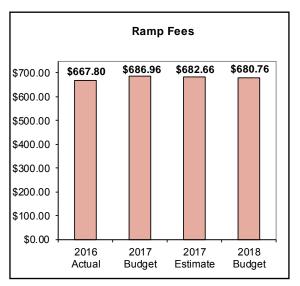
Landing Fee	2016 Actual	2017 Budget	2017 Estimate	2018 Budget
Landing Fee	\$2.68	\$2.79	\$2.83	\$2.90
Landed Weight (000)	22,175	22,870	22,686	23,151
Revenue (000)	\$59,428	\$63,808	\$64,200	\$67,138

### Ramp Fees

Aircraft parking ramp fees are calculated in the same manner as landing fees. Ramp fees are determined by dividing the total Terminal 1 ramp expenses by total lineal feet of ramp available. The ramp fee rate calculation is also residual (breakeven). At year-end, an adjustment will be made for any overage or shortage.

Ramp fees are expected to be relatively flat from 2017 estimate to 2018 budget. Increases in labor and benefits were offset by lower debt service and ramp maintenance costs.

Ramp Fee	2016 Actual	2017 Budget	2017 Estimate	2018 Budget
Ramp Fee (Per Lineal Ft.)	\$667.80	\$686.96	\$682.66	\$680.76
Ramp Footage	11,427	11,179	11,001	11,001
Revenue (000)	\$7,408	\$7,557	\$7,510	\$7,489





Reading Information Boards in MSP Terminal 1-Lindbergh

### Airline Repair and Replacement Surcharge

Per the Airline Lease Amendment, there is an additional surcharge (R&R) for the airlines leasing space at Terminal 1. This surcharge increases annually at a rate of 3%. The rate for 2018 is \$7.40 per square foot. The small growth in revenue for 2018 is due to a reduction in airline rentable space.

### **Terminal 1 Rentals**

Airline Terminal 1 rates are calculated by allocating Terminal 1 building expense over the total rentable square footage in Terminal 1. Airlines are charged for the space they occupy. Unlike landing fees and ramp fees, which are residual calculations, airline Terminal 1 building rates are a compensatory calculation. Under this calculation method, costs are recovered from the airlines in proportion to the rentable space they occupy in the terminal building. Terminal 1 building rate does not include the Repair and Replacement surcharge.

The Terminal 1 rental rate is increasing from \$59.65 to \$62.04 per square foot. The primary reasons for the increase in the Exclusive rates (\$2.39) between 2017 estimate and 2018 budget is due to increases in debt service for Terminal 1 projects as well as higher wage, benefit, and maintenance costs.

Terminal 1-Lindbergh Rates	2016 <u>Actual</u>	2017 <u>Budget</u>	2017 <u>Estimate</u>	2018 <u>Budget</u>
Exclusive (Per Sq. Ft.)	\$60.42	\$58.34	\$59.65	\$62.04
Exclusive Janitored (Per Sq. Ft.)	\$69.00	\$68.48	\$69.26	\$72.08
Total Revenue (000)	\$39,360	\$38,521	\$37,800	\$39,567

### Terminal 1 Other

Revenue from Terminal 1 Other is expected to decrease \$769,000 or 11.1%. Revenues in this area are generated by the International Arrivals Facility (IAF), porter service fees, baggage claim maintenance fees, queue line management fees, and conveyors and carrousels. The primary reasons for the decrease are lower IAF rates and queue line management fees.

The agreement for the IAF facility includes a fee calculation <u>similar</u> to the ramp and landing fees (residual). Users of the facility will be charged a passenger use fee based upon projected expenses. At year-end, an adjustment will be made for any overage or shortage.

The table below shows the IAF fees for actual 2016, budgeted 2017, estimated 2017 and budgeted 2018.

(\$=000)	2016	2017	2017	2018
	Actual	<b>Budget</b>	Estimate	Budget
Total Cost	\$3,257	\$3,968	\$3,680	\$3,569
Passengers	769,976	800,000	800,000	811,136
Fee Per Passenger	\$4.23	\$4.96	\$4.60	\$4.40

The \$0.20 decrease in the IAF fee is due to decreases in maintenance costs, service agreements and a slight increase in passengers.

In late 2014, the Commission completed construction and installation of a checked baggage inspection system, which replaces each airline's outbound baggage system. The Commission will be responsible for the maintenance of the baggage system and will charge the airlines the full cost of maintaining the baggage system. The cost is estimated at \$1,250,000, and the charge to the airlines will be based on the number of enplaned passengers.

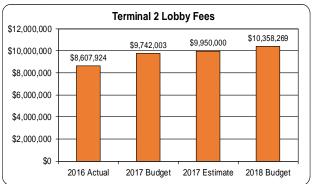
The remaining revenues consisted of conveyors, carrousels, porter service, and queue line management fees. These revenues are expected to decrease due to a higher utilization of queue line management services that were needed in 2017.

#### **Concessions Rebate**

As part of the Airline Use Agreement, the airlines share a portion of concessions revenue, or selected concessions revenue, from food & beverage, news, retail, and on-airport auto rental revenues. The amount of concessions revenue shared is based upon the Commission achieving certain concessions revenue levels and the airlines achieving certain passenger levels. For the 2018 budget, this rebate is projected to be \$17.4 million. The increase of \$217,000 is due to an increase in food, beverage, and retail revenues due to the opening of new food, beverage, and retail units, plus an increase in passengers. For 2018, the air carriers will share in approximately 33% of the Commission's selected Concessions Revenue.

#### Terminal 2 Lobby Fees

Terminal 2 Lobby Fees are expected to increase \$408,000 or 4.1%. Lobby fees are set by MAC Ordinance in which rates are set on a budgetary basis with no true-up based on actual expenses or year-end operational activity. Each gate at Terminal 2 has a revenue cap (for 2018 the gate cap is \$756,312) by airline associated with it based upon the number of aircraft operations. The Commission opened 4 additional gates in October 2016 for a total of 14 gates. The MAC assumes that, of the 14 gates at Terminal 2, 10 will reach the revenue cap and 4 gates will not. The

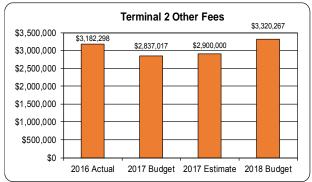


MAC estimates the revenue from the non-capped gates based upon operational data obtained from historical data and from the airlines. The 2018 budget increase in revenue from 2017 estimates is due to higher debt service and maintenance costs as well as increases in operational activity.

In order to keep both Terminal 1 and Terminal 2 rates competitive for the respective airlines, the Terminal 2 rate calculation limits the increase/decrease in certain elements of the rates charged in Terminal 2 to the percentage increase or decrease in rates in Terminal 1. The Terminal 1 rates increased by 6.3% (on a budget to budget basis) and correspondingly the T2 rates increased accordingly.

### **Terminal 2 Other/Passenger Fees**

Terminal 2 Other/Passenger fee revenue is budgeted to increase \$420,000 or 14.5%. This category includes Federal Inspection Service (FIS) charges for international passengers, Terminal 2 building rentals, and non-signatory landing fees. As with Lobby Fees mentioned above, the FIS charges are based on budgetary data with no year-end true up of actual expenses. For 2018, higher FIS revenue is expected due to a higher number of international passengers utilizing Terminal 2 and higher Terminal 2 building rentals.



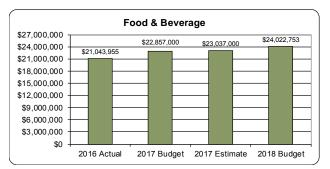
### **Concessions**

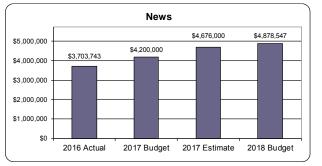
The Concessions category is \$175.5 million or 48% of total operating revenue for 2018. The rates charged for parking are approved by the Commission, while ground transportation fees are authorized according to MAC Ordinances. The revenues from auto rental, food & beverage, news, retail, and passenger services are based on various lease agreements, which allow the concessionaires to operate in MAC facilities. Concessions are projected to increase \$4.0 million or 2.3% from estimated 2017 levels and are based upon the following: 1) New food & beverage, news and retail stores; 2) Revenue from Transportation Network Companies (TNCs); and 3) public parking.

2018 Concessions (\$=000)					2018 B v: 2017 Es	s
	2016 Actual	2017 Budget	2017 Estimate	2018 Budget	Dollar Change	% Change
Concessions						
Food & Beverage	\$21,044	\$22,857	\$23,037	\$24,023	\$986	4.3%
News	3,704	4,200	4,676	4,879	203	4.3%
Retail Stores	4,998	6,150	5,293	5,407	114	2.2%
Passenger Services	6,107	5,939	6,200	6,431	231	3.7%
Parking	91,235	100,702	96,300	97,469	1,169	1.2%
Ground Transportation	7,907	8,601	10,250	11,477	1,227	12.0%
MSP Employee Parking	3,653	3,646	4,158	4,158	0	0.0%
Auto Rental - On Airport	19,876	19,200	19,490	19,490	0	0.0%
Other Concessions	2,167	2,100	2,100	2,160	60	2.9%
Total All Concessions	\$160,691	\$173,394	\$171,504	\$175,495	\$3,991	2.3%

### Food & Beverage

Food & Beverage is projected to increase by \$986,000 or 4.3% from the 2017 estimate due to an increase in passengers and the opening of new food and beverage restaurants.





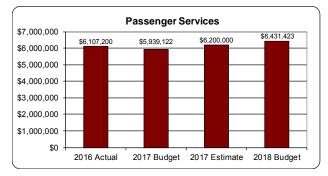
#### News

News is projected to increase \$203,000 or 4.3% from the 2017 estimate due to an increase in passengers and the opening of new stores.

### **Retail Stores**

Retail is projected to increase by \$114,000 or 2.2% from the 2017 estimate due to an increase in passengers.





to a slight increase in transactions.

2016 Actual

#### Passenger Services

Passenger Services are budgeted to increase \$231,000 or 3.7% from the 2017 estimate. Indoor advertising and revenue from CLEAR (a program that allows passengers to expedite their passage through security lines) accounted for the majority of the increase.

### Parking

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 Parking

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2017 Budget 2017 Estimate 2018 Budget



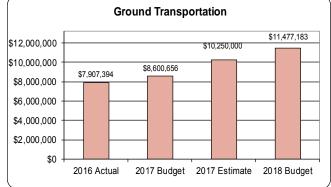
Parking Facility at MSP Terminal 2-Humphrey

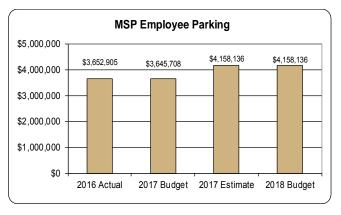
#### 56

Parking is expected to increase from the 2017 estimate by \$1,170,000 or 1.2%. The increase in revenue is due

# **Ground Transportation Fees**

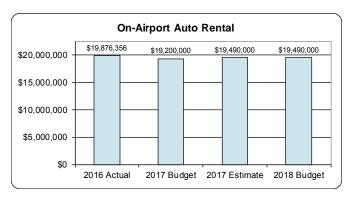
Ground Transportation fees are projected to increase \$1,227,000 or 12.0%. This is primarily a result of additional revenue from Transportation Network Companies (e.g. Uber and Lyft) and off-airport auto rental companies.





### **MSP Employee Parking**

MSP Employee Parking includes ePark Elite parking services and is budgeted to remain flat based upon the latest trends available at the time of budget preparation.

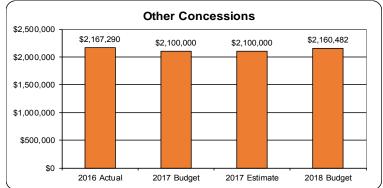


### **On-Airport Auto Rental**

Auto rental fees are projected to be flat based on a conservative estimate of revenue.

### Other Concessions

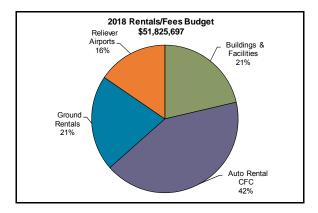
The majority of revenue in the Other Concessions category consists of Outdoor Advertising, auto services, In-Flite Catering, a pet boarding facility, and other miscellaneous concessions. Other Concessions are budgeted to increase slightly from 2017 estimated levels based upon trends and activity at the time of budget preparation.

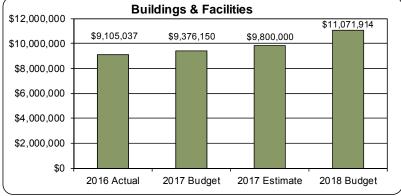


# **Rentals/Fees**

Rentals/Fees are \$51.8 million or 14% of total operating revenue for 2018 and are projected to increase \$2.3 million or 4.6% from 2017 estimated levels. This revenue section consists of the Auto Rental-Customer Facility Charge (CFC), building rentals (non-airline), ground rental space, and reliever airport fees. Ground rental space revenues and a portion of reliever airport revenue are based on MAC Ordinances, while the remaining revenue items are based on leases and agreements. The following table and pie chart show the revenue sources.

2018 Rentals/Fees (\$=000)					2018 B v: 2017 Es	s
	2016 Actual	2017 Budget	2017 Estimate	2018 Budget	Dollar Change	% Change
Rentals/Fees						
Buildings & Facilties	\$9,105	\$9,376	\$9,800	\$11,072	\$1,272	13.0%
Auto Rental CFC	21,924	21,850	21,850	21,850	0	0.0%
Ground Rentals	9,699	10,092	10,392	10,869	477	4.6%
Reliever Airports	7,744	7,303	7,500	8,035	535	7.1%
Total Rentals/Fees	\$48,473	\$48,622	\$49,542	\$51,826	\$2,284	4.6%





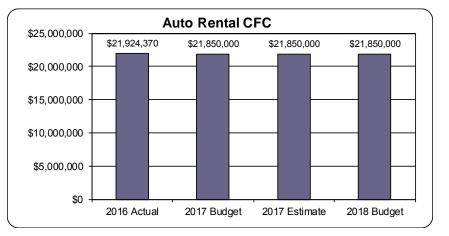
### **Buildings & Facilities**

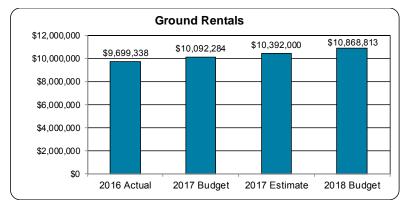
Building and facility rentals are projected to increase \$1,272,000 or 13.0% over the 2017 estimate as a result of new building leases for nonterminal airline tenants, higher rental rates and the implementation of a Hotel Facility Charge (HFC). Commencing in Q2 of 2018, the Commission will begin collecting a HFC (which is based upon 6.5% of gross receipts from room rentals). The proceeds from the HFC will

be used to pay any debt service for the new skyway connector bridge between the hotel and Terminal 1 - Lindbergh, the roadway modifications associated with accessing the hotel, the portion of the Post Office parking facility that will be utilized for the valet parking needs of the hotel, on-going maintenance, and operating costs associated with these facilities.

### Auto Rental-Customer Facility Charge (CFC)

Auto Rental CFCs are budgeted to be flat based on auto rental revenue also being flat. The current CFC rate is \$5.90 per rental car transaction per day.



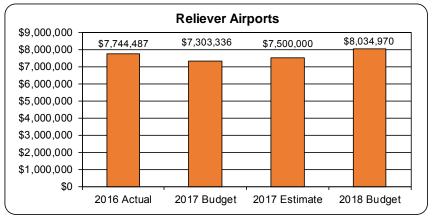


### Ground Rentals

Ground Rentals are budgeted to increase by \$477,000 or 4.6% from 2017 estimated levels. New ground area lease rentals, including that of the new hotel that is scheduled to open in 2018, accounted for the majority of the increase.

### **Reliever Airports**

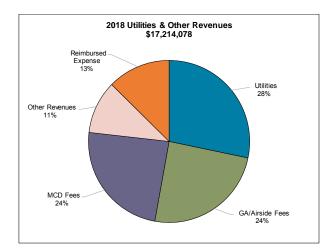
Reliever Airports revenue is expected to increase \$535,000 or 7.1% from 2017 estimated levels from new leases and from trends based upon activity at the time of the budget completion.



### Utilities & Other Revenue

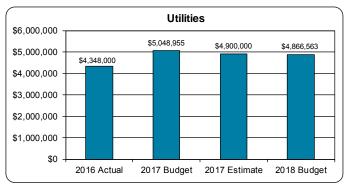
Utilities & Other Revenues are \$17.2 million or 5% of total operating revenue for 2018 and are projected to decrease \$92,000 or 0.5% from 2017 estimated levels. Included in this category are utilities, general aviation/airside fees, Maintenance, Cleaning and Distribution (MCD) fees, other revenues, and reimbursed expense.

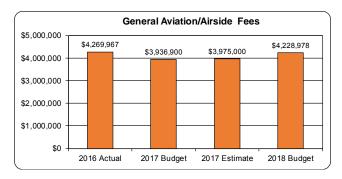
2018 Utilities & Other Revenue (\$=000)					2018 Budget vs 2017 Estimate			
	2016	2017 Dudget	2017	2018 Dudget	Dollar	%		
	Actual	Budget	Estimate	Budget	Change	Change		
Utilities & Other Revenue								
Utilities	\$4,348	\$5,049	\$4,900	\$4,867	(\$33)	-0.7%		
General Aviation/Airside Fees	4,270	3,937	3,975	4,229	254	6.4%		
MCD Fees	3,523	3,812	3,931	4,122	191	4.9%		
Other Revenues	2,136	1,700	2,000	1,824	(176)	-8.8%		
Reimbursed Expense	2,839	2,130	2,500	2,173	(327)	-13.1%		
Total Utilities & Other Revenue	\$17,115	\$16,628	\$17,306	\$17,214	(\$92)	-0.5%		



### Utilities

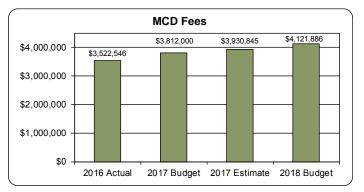
Included in Utilites are water, sewer, electricity, heating, and ground power. The decrease of \$33,000 or 0.7% in this category is due to lower consumption of ground power offset partially by an increase in water and sewer rates.





### **General Aviation/Airside Fees**

This category includes general aviation landing fees, ramp fees, fuel flowage fees, and apron services. This category is expected to increase \$254,000 or 6.4% as a result of additional revenue from airside services, including aircraft cleaning, deicing, and other services.

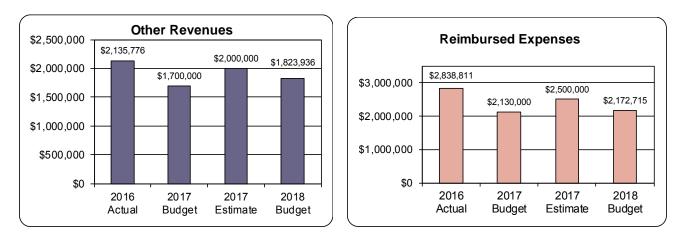


### MCD Fees

Maintenance, Cleaning, and Distribution (MCD) fees are expected to increase \$191,000 or 4.9%. These fees are based on a percent of concession sales.

### **Other Revenues and Reimbursed Expenses**

Included in this category are parking fines, auction revenue, building permits, security badges, and miscellaneous revenues and expenses reimbursed by others. These categories combined are expected to decrease \$503,000 or 12.6% as a result of lower building permit revenues. In 2017, revenues were collected from the construction of an on-airport hotel and one-time reimbursements from energy rebates and other miscellaneous items.





Food Truck Alley Opened in 2017 on Concourse E at MSP

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# **Operating Budget Expense**

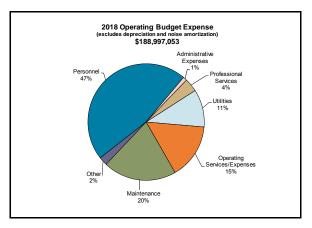
Expenses arise from daily operations and are within the Operating Fund. Expenses are also key factors in determining revenue. For example, Rates and Charges revenue collected from the airlines is based on expenses and is governed by the Airline Use Agreement.

Total Operating Expense for 2018 is \$189.0 million (excluding depreciation and amortization) which is an increase of \$9.0 million or 5.0% over the 2017 estimate. Operating Budget Expense is divided into seven categories: Personnel, Administrative Expenses, Professional Services, Utilities, Operating Services/Expenses, Maintenance, and Other. Major changes in Expenses are included in this section.

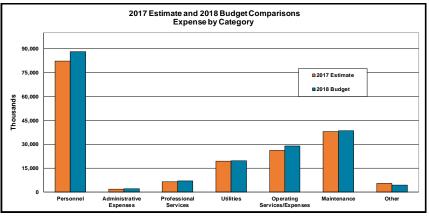
The expense tables and charts throughout this section compare the 2018 budget with the 2017 estimate.

2018 Expense Summary (\$=000)					2018 B v: 2017 Es	s
	2016 Actual	2017 Budget	2017 Estimate	2018 Budget	Dollar Change	% Change
EXPENSE						
Personnel	\$78,048	\$82,909	\$82,350	\$88,222	\$5,872	7.1%
Administrative Expenses	1,723	1,964	1,963	2,066	103	5.2%
Professional Services	6,217	6,681	6,600	7,050	450	6.8%
Utilities	18,816	19,852	19,300	19,696	396	2.1%
Operating Services/Expenses	23,389	26,417	26,225	28,955	2,730	10.4%
Maintenance	36,319	38,777	38,100	38,514	414	1.1%
Other	4,411	4,172	5,400	4,494	(906)	-16.8%
Total Operating Expense	\$168,923	\$180,772	\$179,938	\$188,997	\$9,059	5.0%

The following pie chart shows Personnel is the greatest expense category with 47% of the total. Maintenance and Operating Services/Expenses follow behind with 20% and 15% respectively.



The bar chart below compares the 2017 estimate and 2018 budget. The largest increase is in Personnel followed by Operating Services/Expenses. The increases are explained in more detail later in this section.



	2018 Budget
Operating Bu	Idget Expense

# 2018 Operating Expense

#### 2018 Budget vs 2017 Estimate

	2016 Actual	2017 Budget	2017 Estimate	2018 Budget	2019 Budget	2020 Budget	Dollar Change	% Change
Personnel								
Salaries & Wages	53,739	57,160	56,629	60,784	59,461	61,667	4,155	7.3%
Benefits	24,309	25,749	25,721	27,438	27,860	28,713	1,717	6.7%
Total Personnel	78,048	82,909	82,350	88,222	87,321	90,380	5,872	7.1%
Administrative Expenses	1,723	1,964	1,963	2,066	2,434	2,461	103	5.2%
Professional Services	6,217	6,681	6,600	7,050	8,313	8,557	450	6.8%
Utilities								
Electricity	13,857	14,006	13,300	13,691	14,307	14,801	391	2.9%
Heating Fuel	2,212	2,999	2,923	2,923	3,222	3,367	0	0.0%
Water & Sewer	2,116	2,211	2,452	2,443	2,296	2,360	(9)	-0.4%
Telephones	631	636	625	639	1,074	1,175	14	2.3%
- Total Utilities	18,816	19,852	19,300	19,696	20,899	21,703	396	2.1%
Operating Services/Expense	es							
Storm Water Monitoring	1,465	1,554	1,500	1,554	1,604	1,655	54	3.6%
Shuttle Bus Services	1,912	2,016	2,010	2,116	2,179	2,245	106	5.3%
Parking Management	6,417	6,694	6,650	6,873	7,079	7,291	223	3.3%
Service Agreements	8,774	10,725	10,045	10,607	11,276	11,991	562	5.6%
<b>Operating Services - Other</b>	4,821	5,427	6,020	7,806	4,935	5,022	1,786	29.7%
Total Operating Services/Expenses	23,389	26,417	26,225	28,955	27,073	28,203	2,730	10.4%
Maintenance								
Trades	1,782	2,290	2,100	2,261	2,273	2,359	161	7.7%
Field	3,777	4,103	4,950	4,310	4,590	4,932	(640)	-12.9%
Building	12,724	13,625	13,050	14,901	13,892	14,344	1,851	14.2%
Cleaning	15,343	16,007	15,500	14,469	14,924	15,504	(1,031)	-6.7%
Equipment	2,693	2,753	2,500	2,573	1,749	1,910	73	2.9%
Total Maintenance	36,319	38,777	38,100	38,514	37,428	39,049	414	1.1%
Other								
General Insurance	1,948	2,086	2,050	2,147	2,217	2,275	97	4.8%
Minor Equipment	1,646	1,379	1,375	1,383	1,440	1,554	8	0.6%
Other - Other	816	707	1,975	963	590	615	(1,012)	-51.2%
Total Other	4,411	4,172	5,400	4,494	4,247	4,443	(906)	-16.8%
Total Operating Expenses	168,923	180,772	179,938	188,997	187,716	194,797	9,059	5.0%

### Expense Assumptions and Guidelines

The operating expense budget is compiled with information provided by MAC departments, utility companies, vendors, and historical analyses. The expense budget projections for 2018 are based on the following assumptions and guidelines:

- The MAC will continue to maintain all facilities at the standards established with its tenants and traveling public.
- The MAC will provide a safe and secure airport.
- As positions in the organization become available due to retirement or separation, each vacant position will be reviewed for business need and prioritized based upon organizational requirements.
- The 2017 budget included eight new FTE positions and five additional positions approved during 2017. The full year's impact is included in the 2018 budget. The 2017 positions were:
  - 2 Information Technology Administrative Assistant and Information Security & Compliance Manager
  - 1 Concessions & Business Development Lease File Administrator
  - 3 Police Officers
  - 1 Firefighter
  - 1 Environment General Air Quality Manager
  - 1 Vice President Finance and Revenue Development
  - 1 Vice President Strategy & Stakeholder/Community Engagement
  - 1 Assistant Director-Air Service Development
  - 2 Landside Agents
- The 2018 budget includes eight additional FTE positions to meet workload demands and the increasing complexity of issues facing the MAC. The positions include:
  - 4 Police Officers
  - 1 Information Technology Solutions Architect
  - 1 Firefighter trainee to replace a future vacated position
  - 2 Open Undetermined and awaiting proper placement
- An additional five Information Technology FTEs were requested as part of the 2018 budget process and will be hired and added to the authorized headcount if savings can be achieved in other areas of the service center's budget. These positions are currently unfunded.
- The total FTE position count in the 2018 budget is temporarily at 645.5. The Energy Management Center (EMC) includes two operating engineer trainees to replace future vacated positions as hiring for these specialized positions is difficult.
- Cost increases, such as scheduled contract increases, salary adjustments for existing organized and non-organized workforce, utility rate changes, and insurance rate adjustments have been included.
- Discretionary cost increases were considered only if offset by corresponding annual reduction in expenses, an annual increase in revenue, or was necessary for the ongoing efficient operation of the MAC's airports.

• Expenses are prepared on an accrual basis. This basis of accounting attempts to record financial transactions in the period they occur rather than recording them in the period they are paid. The Commission uses this method for both accounting and budgeting.

### <u>Personnel</u>

Personnel costs will increase \$5.9 million or 7.1% over the 2017 estimates.

2018 Personnel (\$=000)					2018 Bu vs 2017 Est	0
	2016 Actual	2017 Budget	2017 Estimate	2018 Budget	Dollar Change	% Change
Personnel						
Salaries & Wages	\$53,739	\$57,160	\$56,629	\$60,784	\$4,155	7.3%
Benefits	24,309	25,749	25,721	27,438	1,717	6.7%
Total Personnel	\$78,048	\$82,909	\$82,350	\$88,222	\$5,872	7.1%

Major differences between the 2017 estimate and 2018 budget are as follows:

Salaries & Wages – Increase of \$4.2 million or 7.3% due to the following:

- Wages Regular Effective January 2018, a 2.75% cost of living wage increase was included in the budget for non-organized and organized employees. In total, wages increased approximately \$1.9 million for cost of living and step increases. The 2018 budget includes:
  - Two operating engineer trainee positions due to hiring difficulties in this specialized, licensed work area.
  - Other labor contract obligations such as shift differentials, equipment premium pay, and Labor Union 320 longevity pay.
  - An adjustment in wages to reflect a vacancy factor to account for the time necessary to fill open positions.
  - Eight new positions for 2018, identified earlier, which added approximately \$535,000 to the budget.
  - A full year's impact for positions that were vacant for all or part of 2017 totaling \$707,200. Although a vacancy factor was included, many of the open positions occurred in Police and Information Technology which require a more intensive hiring process, resulting in a lower 2017 estimate. Many of these positions are expected to be filled by the beginning of 2018.

	Full Time Equivalent Positions											
2014	2015	2016	2017	2017	2018							
Actual	Actual	Actual	Budget	Estimate	Budget							
576*	591* **	604.5 * ***	627.5* ^	613	645.5* ^^							
		** includes 1 *** includes 9	additional po additional po	5 status chang ositions ositions	ge positions							

Overtime – Regular and Double-time are increasing \$378,000 in the 2018 budget from the 2017 estimate. The mild winter conditions in Q1 2017 (due to lower than average snowfall amounts) resulted in costs under budget for 2017. In preparing the 2018 budget, the MAC used historical averages in budgeting for snow removal costs. Also included are wage increases, work call-backs and additional overtime necessary to ensure coverage for vacations, holidays, peak time periods, and for coverage during Super Bowl LII.

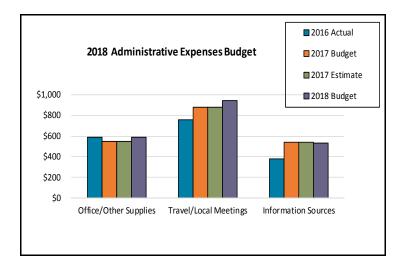
• Temporary employees – The increase of \$537,400 or 15.4% is due to budgeting for temporary cashier positions during the Transportation Networking Company and taxi permitting period and increases in part-time officers for checkpoint security and employees for traffic control.

**Benefits** – Included in benefits are employee insurance/post-retirement healthcare, Social Security, Medicare, retirement plans, severance, workers compensation, and other miscellaneous items. An increase of \$1.7 million or 6.7% is projected over 2017. The major components of the increase are for employee insurance which is estimated to grow at 6%; increases in retirement plans, Social Security, and Medicare contributions due to a growth in wages and headcount; and an increase in post-retirement medical contributions based on the latest actuarial study.

### Administrative Expenses

Administrative Expenses are increasing \$102,724 or 5.2% as identified in the table below. The increases are in the supplies and travel areas.

2018 Administrative Expenses (\$=000)					2018 B vs 2017 B	0
	2016	2017	2017	2018	Dollar	%
	Actual	Budget	Estimate	Budget	Change	Change
Office/Other Supplies	\$585	\$547	\$547	\$591	\$44	8.0%
Travel/Local Meetings	760	879	879	940	61	6.9%
Information Sources	378	538	537	535	(2)	-0.4%
Total Administrative Expenses	\$1,723	\$1,964	\$1,963	\$2,066	\$103	5.2%



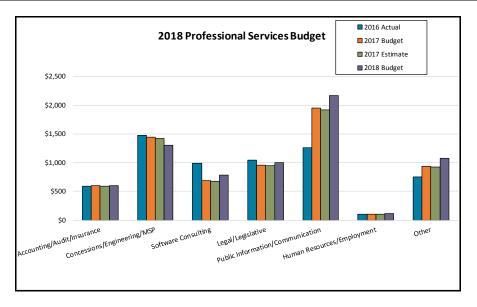
**Office/Other Supplies** – Chain link fence to improve police canine kennels and various computer and other supplies increased Office/Other Supplies by \$44,000 or 8% in the 2018 budget.

**Travel/Local Meetings** – The increase in the 2018 budget is based on higher airfares, lodging costs, registration fees, mileage, and meal costs for attending conferences and meetings. A number of staff serve on national committees that typically require out of state travel. In addition, required Aircraft Rescue Fire Fighting (ARFF) training which was previously conducted in state is now performed out of state.

## Professional Services

2018 Professional Services (\$=000)					2018 Bu 2017 Es	•
	2016	2017	2017	2018	Dollar	%
	Actual	Budget	Estimate	Budget	Change	Change
Accounting/Audit/Insurance	\$588	\$603	\$596	\$607	\$11	1.8%
Concessions/Engineering/MSP	1,477	1,445	1,428	1,306	(122)	-8.5%
Software Consulting	990	685	674	781	107	15.9%
Legal/Legislative	1,041	956	945	1,006	61	6.5%
Public Information/Community	1,258	1,948	1,925	2,166	241	12.5%
Human Resources/Employment	109	110	109	112	3	2.8%
Other	754	934	923	1,072	149	16.1%
Total Professional Services	\$6,217	\$6,681	\$6,600	\$7,050	\$450	6.8%

Professional Services increased \$450,000 or 6.8% over 2017 estimates.



The following combination of changes in Professional Services explains the larger variances:

**Concessions/Engineering/MSP** – The 2017 budget included \$125,000 in Request for Proposal (RFP) consultant fees for the new concession rebid. This one-time expense is creating a negative variance of \$122,000 in the 2018 budget.

**Software Consulting** – The increase of \$107,000 is consulting fees to provide guidance in the Enterprise Architecture process for the MAC and PCI compliance as well as other miscellaneous technology projects.

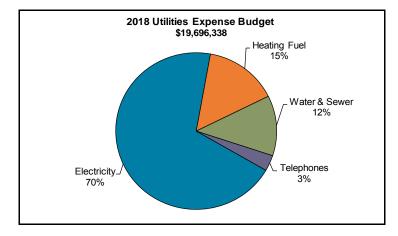
**Public Information/Community** – A public relations and marketing consultant is budgeted at \$150,000 to research and plan the integration and enhancement of communications with the public. The increase also includes \$150,000 to establish a Community Engagement Plan to promote community awareness to position the MAC as an active, valuable member of the community.

**Other** – The major factor driving the \$149,000 increase in this category is developing a strategic plan and process for the overall business plan including alignment, performance management, and reporting.

## **Utilities**

Total Utilities are budgeted to increase \$396,000 or 2.1% over 2017 estimates and are explained as follows.

2018 Utilities Expense						Budget /s
(\$=000)					-	stimate
	2016	2017	2017	2018	Dollar	%
	Actual	Budget	Estimate	Budget	Change	Change
Utilities						
Electricity	\$13,857	\$14,006	\$13,300	\$13,691	\$391	2.9%
Heating Fuel	2,212	2,999	2,923	2,923	(0)	0.0%
Water & Sewer	2,116	2,211	2,452	2,443	(9)	-0.4%
Telephones	631	636	625	639	14	2.3%
Total Utilities	\$18,816	\$19,852	\$19,300	\$19,696	\$396	2.1%

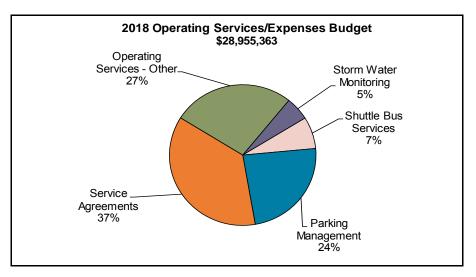


**Electricity** – The increase in electricity of \$391,000 or 2.9% is based upon the forecast provided by the utility company and an outside consultant.

### **Operating Services/Expenses**

Operating Services expenses are increasing \$2.7 million or 10.4%. The following chart lists the major components in this category.

2018 Operating Services/Expenses (\$=000)					2018 Budget vs 2017 Estimate		
	2016 Actual	2017 Budget	2017 Estimate	2018 Budget	Dollar Change	% Change	
– Parking Management	\$6,417	\$6,694	\$6,650	\$6,873	\$223	3.3%	
Shuttle Bus Services	1,912	2,016	2,010	2,116	106	5.3%	
Service Agreements	8,774	10,725	10,045	10,607	562	5.6%	
Storm Water Monitoring	1,465	1,554	1,500	1,554	54	3.6%	
Other	4,821	5,427	6,020	7,806	1,786	29.7%	
Total Operating Services/Expense	\$23,389	\$26,417	\$26,225	\$28,955	\$2,730	10.4%	



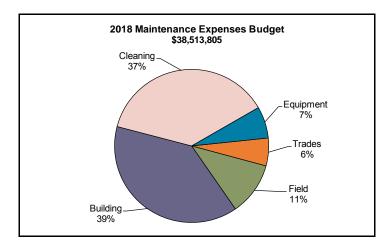
**Service Agreements** – Service agreements are increasing \$562,000 or 5.6% over 2017 estimates. The main expenditure leading to the increase is additional security staffing at two MSP airfield access gate locations at Terminal 1 and Fire Station 1 as requested by the airlines at \$720,000. Various IT service agreements for new and existing technology are also affecting the variance.

**Other** – Other expenses are increasing \$1.8 million or 29.7%. The 2018 National Football League (NFL) Super Bowl championship game was held in Minneapolis, Minnesota in February 2018. \$1.6 million was budgeted for the event. Most of the additional cost is for janitorial services. Other Super Bowl expenses include security, carpet replacement, various parking costs, location set-up to accommodate reporters, and additional porter and queue line management services. Furthermore, the Commission's contribution to the Airport Foundation increased \$110,000 for the Percent for Arts program. The increase also includes various other expenses.

### **Maintenance**

The Maintenance category has five components: Trades (Painters, Carpenters, Electricians and Plumbers); Field (Snow Removal, Summer Maintenance and Landscaping); Building (Carrousel/Conveyors, Elevators/Escalators, Moving Walks and Automated People Mover); Equipment (Parts, Shop Supplies and Gas); and Cleaning (Janitorial, Windows, Cleaning Supplies and Rubbish Removal). Total maintenance will increase 1.1% or \$414,000 over 2017 estimates.

2018 Maintenance Expenses (\$=000)					2018 B vs 2017 Es	5
	2016 Actual	2017 Budget	2017 Estimate	2018 Budget	Dollar Change	% Change
Maintenance						
Trades	\$1,782	\$2,290	\$2,100	\$2,261	\$161	7.7%
Field	3,777	4,103	4,950	4,310	(640)	-12.9%
Building	12,724	13,625	13,050	14,901	1,851	14.2%
Equipment	2,693	2,753	2,500	2,573	73	2.9%
Cleaning	15,343	16,007	15,500	14,469	(1,031)	-6.7%
Total Maintenance	\$36,319	\$38,777	\$38,100	\$38,514	\$414	1.1%



**Trades** – Trades is increasing \$161,000 or 7.7%. A mild winter at the beginning of 2017 contributed to a lower 2017 estimated amount. The 2018 budget increased \$17,000 for required testing of fire systems and pumps and new sprinkler systems. Other various maintenance and upgrades throughout the MAC will increase this budget category.

**Field** – Field costs include snow removal, summer maintenance and landscaping. Snow removal costs make up the majority of this \$4.3 million budget. A number of ice events in the first quarter increased the need for additional anti-ice materials which caused a higher estimated amount for 2017. Field maintenance expenses are budgeted in 2018 for snow removal costs associated with an average winter.

**Building** – Building expenses are increasing \$1.9 million or 14.2% over 2017 estimates. The budget includes \$1.2 for maintenance and support costs for the new inline baggage handling system at Terminal 2-Humphrey which started in 2017. The remainder of the increase is contractual increases in elevators, escalators, moving walkways, tram systems, Terminal 1-Lindbergh baggage screening, and temperature control contracts.

**Cleaning** – Cleaning expenses are budgeted to decrease \$1.0 million or 6.7%. This is a result of a new cleaning service agreement executed in 2017.





MAC Mechanics Maintain a Wide Variety of Equipment in the MAC Fleet

## <u>Other</u>

The Other expense category is projected to decrease \$906,000 or 16.8%. This category includes General Insurance, Minor Assets (less than \$10,000) and miscellaneous items.

The following table identifies the changes in the three major components.

2018 Other Expenses (\$=000)					2018 Bu vs 2017 Est	0
	2016 Actual	2017 Budget	2017 Estimate	2018 Budget	Dollar Change	% Change
Other		_		_	_	
General Insurance	\$1,948	\$2,086	\$2,050	\$2,147	\$97	4.8%
Minor Equipment	1,646	1,379	1,375	1,383	8	0.6%
Other	816	707	1,975	963	(1,012)	-51.2%
Total Other	\$4,411	\$4,172	\$5,400	\$4,494	(\$906)	-16.8%

**General Insurance** – General Insurance has increased \$97,000 or 4.8%. The insurance market is based upon factors worldwide (losses under the deductible, litigation costs, history of cost, and inflationary factors). The cost increase in 2018 is primarily for rate increases.

**Other expenses** – Other is lower in 2018 compared to the 2017 estimate due to the Commission's Air Service Incentive Program. In 2017, two airlines met the criteria for new international air service. One airline provided service from MSP to Tokyo, Japan and the other airline provided service from MSP to Reykjavik, Iceland. The Incentive Program allows for landing and gate fees waivers as long as the air carriers provide continuous air service according to the terms of the Incentive Program.



Planes Awaiting Take-off at Minneapolis-St. Paul International Airport

	Total	Terminal 1	Terminal 1 FIS	Energy Management Center	Ramp Fees	Field & Runways	Control Tower	Terminal Roads/ Landside	Parking Facilities
Personnel									
Wages	60,783,972	743,200	-	1,820,404	-	1,268,190	-	2,355,774	-
Benefits	27,437,614	518,945	-	918,298	-	133,964	-	873,426	-
Total Personnel	88,221,586	1,262,145	-	2,738,702	-	1,402,154	-	3,229,200	-
Administrative Expenses									
Supplies	591,082	3,300	8,750	3,085	-	12,848	-	10,296	-
Travel	612,127	5,700	-	-	-	40,115	-	21,300	-
Other Administrative Expenses	862,765	1,000	-	928	-	1,700	-	18,852	-
Total Administrative Expenses	2,065,974	10,000	8,750	4,013	-	54,663	-	50,448	<u> </u>
Professional Services Accounting/Audit Fees	211,600	_	_	_	_	_	_	_	_
-		-	-	-	-	-	-	-	-
Appraisals	50,000	-	-	-	-	-	-	-	-
RFP/Leases	50,000	-	-	-	-	-	-	-	-
Concept Develop/Feasible	20,000	-	-	-	-	-	-	-	-
Computer Services	780,600	-	-	-	-	-	-	-	-
Engineering Fees	891,411	125,000	-	47,911	-	508,750	-	-	-
Graphic Design	27,000	-	-	-	-	-	-	-	-
Insurance Consultants	345,000	-	-	-	-	-	-	-	-
Legal Fees	799,000	-	-	-	-	-	-	-	-
Legislative	207,350	-	-	-	-	-	-	-	-
Medical Fees	50,000	-	-	-	-	-	-	-	-
Planning	195,000	-	-	-	-	40,000	-	-	-
Pollution/Environmental Fees	6,100	-	-	-	-	-	-	-	-
Public Information	356,600	-	-	-	-	-	-	-	-
Recruiting Expenses	112,000	-	-	-	-	-	-	-	-
Safety Consultants	40,402	535	-	-	-	-	-	-	-
Communications Consultant	24,000	-	-	-	-	24,000	-	-	-
Miscellaneous Expenses	2,884,376	277,616	-	-	-	71,500	-	20,500	-
Total Professional Services	7,050,439	403,151	-	47,911	-	644,250	-	20,500	-
<u>Utilities</u> Electricity	13,691,258	8,616,613	-	-	-	911,341	-	282,393	733,331
Heating Fuel	2,922,656	170,288	-	1,898,684	-	19,720	8,476	66,189	81,214
Sewer	1,174,601	230,487	-	80,169	-	19,691	50	90	12,025
Water	1,268,733	440,374	-	113,375	-	3,000	250	25,442	9,558
Telephone	639,090	7,584	-	7,177	-	6,000	-	10,704	-
Total Utilities	19,696,338	9,465,346	-	2,099,405	-	959,752	8,776	384,818	836,128

	Cargo Area	Terminal 2	Public Area/ Roads	Hangars & Other Bldgs	Maintenance Employees	Equipment Maintenance	Inventory/ Trades
Personnel							
Wages	-	672,852			14,632,853	-	-
Benefits		180,108			7,061,840	-	8,350
Total Personnel		852,960			21,694,693	-	8,350
Administrative Expenses							
Supplies	-	29,600			18,500	2,250	9,800
Travel	-	9,650			3,500	-	3,305
Other Administrative Expenses	-	1,050			-	500	3,608
Total Administrative Expenses		40,300			22,000	2,750	16,713
Professional Services							
Accounting/Audit Fees	-	-			-	-	-
Appraisals	-	-			-	-	-
RFP/Leases	-	-			-	-	-
Concept Develop/Feasible	-	-			-	-	-
Computer Services	-	-			-	-	-
Engineering Fees	-	15,750			-	-	-
Graphic Design	-	-			-	-	-
Insurance Consultants	-	-			-	-	-
Legal Fees	-	-			-	-	-
Legislative	-	-			-	-	-
Medical Fees	-	-			-	-	-
Planning	-	-			-	-	-
Pollution/Environmental Fees	-	-			-	-	-
Public Information	-	-			-	-	-
Recruiting Expenses	-	-			-	-	-
Safety Consultants	-	-			-	-	-
Communications Consultant	-	-			-	-	-
Miscellaneous Expenses	-	41,084			75,000	-	305,799
Total Professional Services	-	56,834			75,000	-	305,799
Utilities							
Electricity	183,429	1,351,349	276,949	9 329,153	-	120	309,816
Heating Fuel	123,392	286,243	1,684	4 56,321	-	-	102,935
Sewer	4,008	-	761,60	9 1,002	-	-	30,063
Water	-	104,081	518,83	8 19,342	-	-	20,105
Telephone	-	2,900			16,700	-	42,096
Total Utilities	310,829	1,744,573	1,559,08	0 405,818	16,700	120	505,015

	Concourses A-D	Police	Fire	Administration	Building Official	Comm- unication/ Operations	Noise & Environment	Total Reliever Airports
Personnel								
Wages	-	11,850,225	5,238,819	14,141,338	958,556	3,060,523	1,362,623	2,678,615
Benefits	-	5,480,019	2,587,763	6,253,611	289,734	1,225,909	440,152	1,465,494
Total Personnel	-	17,330,244	7,826,582	20,394,949	1,248,291	4,286,432	1,802,775	4,144,109
Administrative Expenses								
Supplies	-	186,488	3,500	252,230	4,550	30,083	9,675	6,127
Travel	-	36,751	51,415	335,152	15,545	38,257	32,237	19,200
Other Administrative Expense	-s	28,164	4,900	721,343	3,245	54,865	14,930	7,680
Total Administrative Expenses	-	251,403	59,815	1,308,725	23,340	123,205	56,842	33,007
Professional Services								
Accounting/Audit Fees	-	-	-	211,600	-	-	-	
Appraisals	-	-	-	50,000	-	-	-	
RFP/Leases	-	-	-	30,000	20,000	-	-	
Concept Dev/Feasible	-	-	-	20,000	-	-	-	
Computer Services	-	170,000	-	610,600	-	-	-	
Engineering Fees	-	-	-	13,000	-	-	75,000	106,000
Graphic Design	-	-	-	27,000	-	-	-	
Insurance Consultants	-	-	-	345,000	-	-	-	
Legal Fees	-	-	-	692,000	-	-	92,000	15,000
Legislative	-	-	-	207,350	-	-	-	
Medical Fees	-	-	-	50,000	-	-	-	
Planning	-	-	-	35,000	-	-	-	120,000
Pollution/Environ Fees	-	-	-	-	-	-	1,600	4,500
Public Information	-	-	-	356,600	-	-	-	
Recruiting Expenses	-	-	-	112,000	-	-	-	
Safety Consultants	-	2,867	-	37,000	-	-	-	
Comm/Consultant	_	_,	-	-	-	_	_	
Miscellaneous Expenses	-	86,924	76,860		100,000	120,255	934,000	147,574
- Total Professional Services	-	259,791	76,860	3,424,414	120,000	120,255	1,102,600	393,074
<u>Utilities</u>								
Electricity	-	-	127,135	267,499	-	-	7,200	294,930
Heating Fuel	-	-	33,746	43,916	-	-	-	29,848
Sewer	-	-	1,303	2,004	-	-	-	32,100
Water	-	-	5,817	5,176	-	-	-	3,375
Telephone	-	66,165	15,360		5,544	29,131	25,390	64,927
- Total Utilities	-	66,165	183,361	658,007	5,544	29,131	32,590	425,180

	Total	Terminal 1	Terminal 1 FIS	Energy Management Center	Ramp Fees	Field & Runways	Control Tower	Terminal Roads/ Landside	Parking Facilities
<b>Operating Services/Expenses</b>									
Advertising	516,112	-	-	-	-	-	-	-	408,912
Environmental Control	207,900	-	-	-	-	1,200	-	-	-
GISW Management	1,554,000	4,000	-	-	-	1,450,000	-	-	-
Grd Transportation Services	30,000	-	-	-	-	-	-	30,000	-
Shuttle Services	2,115,819	1,007,568	-	-	-	-	-	965,247	-
Parking Lots	6,872,536	-	-	-	-	-	-	-	6,872,536
Met Council Fees	230,000	-	-	-	-	230,000	-	-	-
Employee Programs	169,500	-	-	-	-	-	-	-	-
Conference Center	30,000	-	-	-	-	-	-	-	-
Events & Exercises	1,618,012	1,205,003	-	-	-	40,500	-	74,858	-
Other Charges/Fees	5,004,452	603,000	-	-	-	722,735	-	-	527,004
Service Agreements	10,607,032	3,040,843	503,520	-	-	159,450	-	403,096	800,808
Total Operating Services/Expenses	28,955,363	5,860,414	503,520	-	-	2,603,885	-	1,473,201	8,609,260
Maintenance									
Trades - Painters	299,242	30,197	-	1,513	-	185,076	-	-	9,180
Trades - Carpenters	244,721	136,808	-	-	-	-	-	-	-
Trades - Plumbers	261,800	125,000	-	4,920	-	11,000	-	2,000	-
Trades - Electricians	1,455,081	399,413	-	6,630	-	313,282	-	5,200	281,345
Maintenance - Field	4,310,166	6,374	-	-	47,000	2,228,400	-	118,000	732,000
Maintenance Building	14,901,064	9,120,440	47,589	280,575	-	35,000	-	1,508,147	338,926
Maintenance-Cleaning	14,469,027	10,243,842	217,699	-	-	55,000	-	319,689	418,111
Maintenance-Equipment	2,572,704	146,975	2,000	237,550	-	-	-	14,417	220,085
Total Maintenance	38,513,805	20,209,049	267,288	531,188	47,000	2,827,758	-	1,967,453	1,999,647
Other									
General Insurance	2,147,499	599,457	-	97,830	62,995	106,127	-	36,647	127,680
Safety	120,970	10	-	3,998	-	12,500	-	-	-
Medical Information/Supply	20,878	2,750	-	556	-	3,000	-	-	-
Rentals	56,940	-	-	-	-	-	-	1,440	-
Licenses/Permits	22,176	-	-	1,726	-	4,000	-	-	-
Miscellaneous Expenses	742,474	600	2,000	-	-	10,000	-	-	-
Capital Assets	1,382,611	6,000	-	6,000	-	-	-	-	-
Total Other	4,493,548	608,817	2,000	110,110	62,995	135,627	-	38,087	127,680
Grand Total	188,997,053	37,818,922	781,558	5,531,329	109,995	8,628,089	8,776	7,163,707	11,572,715

	Cargo Area	Terminal 2	Public Area/ Roads	Hangars & Other Bldgs	Maintenance Employees	Equipment Maintenance	Inventory/ Trades
Operating Services/Expenses							
Advertising Environmental Control	-	-	-	-	-	-	-
	-	-	18,000	-	-	12,000	17,200
GISW Management	-	-	-	-	-	-	-
Grd Transportation Services	-	-	-	-	-	-	-
Shuttle Services	-	143,004	-	-	-	-	-
Parking Lots	-	-	-	-	-	-	-
Met Council Fees	-	-	-	-	-	-	-
Employee Programs	-	-	-	-	-	-	-
Conference Center	-	-	-	-	-	-	-
Events & Exercises	-	-	-	-	3,000	-	5,000
Other Charges/Fees	-	2,175	-	-	-	-	-
Service Agreements	-	616,203	-	-	-	53,000	82,652
Total Operating Services/Expenses	-	761,382	18,000	-	3,000	65,000	104,852
Maintenance							
Trades - Painters	-	3,033	-	-	-	-	59,323
Trades - Carpenters	-	21,482	-	-	-	-	65,555
Trades - Plumbers	-	33,380	2,000	16,000	-	6,000	35,500
Trades - Electricians	-	88,821	52,000	33,275	-	-	62,063
Maintenance - Field	61,000	-	86,750	-	-	916,800	-
Maintenance Building	169,350	1,811,600	-	71,482	-	6,989	126,582
Maintenance-Cleaning	1,790	2,231,202	-	113,729	-	-	13,082
Maintenance-Equipment	-	24,137	-	2,578	-	1,098,209	79,506
Total Maintenance	232,140	4,213,655	140,750	237,064	-	2,027,998	441,611
<u>Other</u>							
General Insurance	-	64,648	36,163	32,978	-	203,720	10,812
Safety	-	-	3,000	-	16,500	-	29,403
Medical Information/Supply	-	-	-	-	-	-	-
Rentals	-	-	-	-	-	-	27,500
Licenses/Permits	-	-	-	-	-	6,850	2,400
Miscellaneous Expenses	-	2,750	-	-	-	44,254	-
Capital Assets	-	15,650	-	-	-	39,600	49,698
Total Other		83,048	39,163	32,978	16,500	294,424	119,813
Grand Total	542,969	7,752,752	1,756,993	675,860	21,827,893	2,390,292	1,502,153

2018 Budget Expenses by	/ Subleage	r				Comm-		
	Concourses A-D	Police	Fire	Administration	Building Official	unication/ Operations	Noise & Environment	Total Reliever Airports
Operating Services/Expenses								
Advertising	-	-	-	94,400	2,000	-	-	10,800
Environmental Control	-	-	5,000	8,000	-	-	1,000	145,500
GISW Management	-	-	-	100,000	-	-	-	-
Grd Transportation Services	-	-	-	-	-	-	-	-
Shuttle Services	-	-	-	-	-	-	-	-
Parking Lots	-	-	-	-	-	-	-	-
Met Council Fees	-	-	-	-	-	-	-	-
Employee Programs	-	-	-	169,500	-	-	-	-
Conference Center	-	-	-	-	30,000	-	-	-
Events & Exercises	-	-	-	126,000	-	15,151	-	148,500
Other Charges/Fees	-	1,114,373	-	633,110	1,307,190	77,365	4,000	13,500
Service Agreements	-	360,094	43,000	4,013,350	3,800	288,102	225,114	14,000
Total Operating Services/Expenses	-	1,474,467	48,000	5,144,360	1,342,990	380,618	230,114	332,300
<u>Maintenance</u> Trades - Painters	-	-	1,000	-	-	-	-	9,920
Trades - Carpenters	-	-	-	1,000	-	-	-	19,876
Trades - Plumbers	-	-	9,500	4,500	-	-	-	12,000
Trades - Electricians	-	16,800	27,036	27,900	-	-	-	141,316
Maintenance - Field	-	-	-	750	-	-	-	113,092
Maintenance Building	-	-	18,411	18,210	1,250,000	-	-	97,763
Maintenance-Cleaning	-	-	69,471	29,707	645,495	18,810	-	91,400
Maintenance-Equipment	-	224,857	103,858	47,196	-	34,487	2,437	334,412
Total Maintenance	<u> </u>	241,657	229,276	129,263	1,895,495	53,297	2,437	819,779
<u>Other</u>								
General Insurance	-	222,205	165,167	113,461	-	9,647	6,893	251,069
Safety	-	6,903	-	46,000	-	-	-	2,656
Medical Information/Supply	-	9,572	4,500	200	-	-	-	300
Rentals	-	-	-	28,000	-	-	-	-
Licenses/Permits	-	-	-	-	600	-	2,500	4,100
Miscellaneous Expenses	-	229,050	54,000	13,029	350,000	26,000	-	10,791
Capital Assets	-	2,936	66,000	1,184,300	6,000	6,427	-	-
Total Other		470,666	289,667	1,384,990	356,600	42,074	9,393	268,916
Grand Total	-	20,094,393	8,713,561	32,444,708	4,992,260	5,035,012	3,236,751	6,416,365

## **Construction Fund**

All capital asset expenditures are within the Construction Fund and are broken down into two categories which are:

- Equipment and Technology Related Expenditures
- Capital Improvement Program Expenditures

Capital asset expenditures relate to the acquisition of assets in which the benefits extend over one or more accounting periods beyond the current period. It is the Commission's policy to amortize the carrying amount of the assets over their estimated useful lives on a straight-line basis by annual depreciation charges to income. Estimated useful lives on depreciable assets are as follows:

Airport improvements and buildings	10 - 40 years
Moveable equipment	3 - 15 years

Costs incurred for major improvements are carried in construction in progress until disposition or completion of the related projects. Costs relating to projects not pursued are expensed, while costs relating to completed projects are capitalized. The capitalization threshold for capital assets is \$10,000.

For Capital Improvement Program expenditures, a monthly report of all final payments, including any change orders, are reviewed and approved by the Commission.

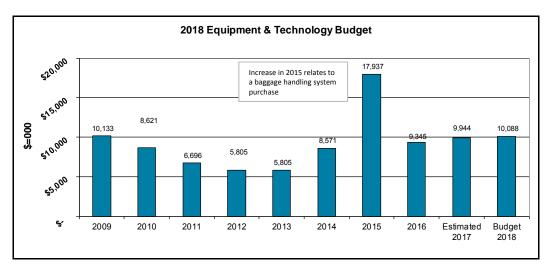
#### **Equipment and Technology-Related Expenditures**

Annually, the MAC completes its capital equipment requests for new and replacement equipment. All technology related capital equipment was also reviewed by the Information Technology Department. The capital equipment requests in the 2018 budget increased slightly by approximately \$144,000.

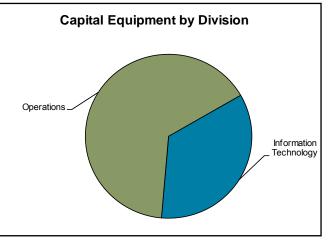
In 2008, the Commission fully incorporated the changes in the Amendment to the Airline Use and Lease Agreement. This change resulted in a significant modification to the way the Commission acquires capital equipment. In the past, internally generated funds were used to purchase all capital equipment and the resulting depreciation associated with that equipment was charged to MSP tenants, in particular, the airlines. In the Amendment, this process changed due to elimination of using depreciation and now incorporating the use of various types of debt as a chargeback to the tenants and airlines. Currently, the \$10.1 million capital equipment budget listed below is funded in two ways. First, those pieces of equipment which are chargeable to the tenants and airlines are now acquired through equipment financing (Notes Payable). The amount of equipment financed for 2018 is approximately \$3.5 million. The term of these financings is 10 years. The principal and interest associated with these equipment financings will be charged back based on the appropriate percentage found in the Airline Use and Lease Agreement resulting in recovery of all or a portion of the total dollars. Lastly, the remaining value of capital equipment (approximately \$6.6 million) will be funded with internally generated funds.

2018 Equipment & Technology Budget							
	201	7 Estimate	20	)18 Budget	\$ <b>\</b>	/ariance	% Variance
Equipment & Technology	\$	9,943,500	\$	10,087,980	\$	144,480	1.5%

The chart on the next page compares equipment and technology purchases for the past 10 years. In 2015, the MAC purchased the outbound baggage handling system from Delta for approximately \$8 million.



This chart on the right displays the 2018 capital equipment requests by Information Technology and Operations.





Field Maintenance Equipment Used to Clean the Runway at MSP

The following pages contain details of the Capital Equipment and Technology requests for 2018.

## **Capital Equipment Projects**

#### 82600 Airside Operations

4x4 SUV		
Acquisition: Individual Cost: Trade-in Value: Quantity: Total:	Replacement \$50,000 \$1,000 1 \$49,000	and reliability for 24/7 operations. Three vehicles in the service center are rotated in the replacement program. Vehicles are replaced when repair costs outweigh repair benefits. The vehicle
Airside Operations Total:	\$49,000	

#### 83400 Landside-Administration

Four Door Truck		
Acquisition: Individual Cost: Trade-in Value: Quantity: Total:	Replacement \$29,000 \$1,000 2 \$57,000	The new vehicle will replace a vehicle used by the parking management staff in their daily monitoring duties. It is also used to assist customers with their lost vehicles. Replacement is based on the MAC's fleet schedule.
Landside-Administration Tota	al: \$57,000	

#### 83600 Fire

Defibrillator/Monitor		
Acquisition:	Replacement	
Individual Cost:	\$20,000	patients with various medical conditions, including sudden
Trade-in Value:	\$5,000	cardiac arrest. Current units are 10 years old and have become
Quantity:	3	difficult and costly to maintain. The new units will provide better patient care capabilities. Also, they are smaller, making them
Total:	\$55,000	easier to carry and to store on the apparatus.
Firefighting Skid Pump Uni	t	
Acquisition:	New	The new portable skid fire pump unit can be placed in any pick-
Individual Cost:	\$30,000	up bed to allow flexible firefighting capabilities. The ultra high
Quantity:	1	pressure pump system improves efficiency for vehicle fires in
Total:	\$30,000	parking ramps. Purchasing this unit produces significant cost savings when compared to an estimated \$200,000 cost for
		replacement of a mini-pumper vehicle.
Thermal Imaging Camera (1	TC)	
Acquisition:	Replacement	Current thermal imaging camera units need costly repairs; the
Individual Cost:	\$15,000	benefits of the repairs do not outweigh the costs. The
Trade-in Value:	\$1,500	replacement cameras will have more features for safer and more
Quantity:	3	effective fire and rescue operations.
Total:	\$43,500	

Utility Pickup Truck		
Acquisition: Individual Cost: Trade-in Value: Quantity:	Replacement \$55,000 \$5,000 1	The new utility pickup truck replaces a 2001 truck. It is needed to pull the airboat and other response trailers. The new truck will also provide transport of personnel for on-airport and off-airport trainings and events.
Total:	\$50,000	
Fire Total:	\$178,500	
84200 Police		
Police Vehicle Replacement		
Acquisition: Individual Cost: Trade-in Value:	Replacement \$49,000 \$1,500	The new vehicle replaces a unit used for patrol and investigative purposes. The current unit is over 13 years old or has mileage in excess of 100,000 miles. Replacement of the current unit is
Quantity:	\$1,500 2	recommended by the Airport Police Department and the MAC's
Total:	\$96,500	equipment superintendent.
Police Vahiele Poplessment	. ,	
Police Vehicle Replacement	Now	The Airport Police Department is adding two new marked police
Acquisition: Individual Cost: Quantity:	New \$49,000 2	squads for the patrol fleet. The unmarked fleet will decrease by one. Currently there is one vehicle for supervisors and officers
Total:	\$98,000	assigned inside Terminal 2. The increase in the marked vehicle fleet is a result of additional transportation needs to and from Terminal 2 assignments, as well as the ability to respond to other locations on airport property in the event of an incident. Terminal 2 assignments have increased, with one additional supervisor and one additional high visibility officer assigned on a regular basis at Terminal 2. An increase of officer presence is anticipated in 2018. Marked patrol vehicles will also assist with deterrence at Terminal 2.
T3 Replacement Unit		
Acquisition: Individual Cost: Trade-in Value: Quantity: Total:	Replacement \$15,500 \$0 1 \$15,500	The new unit replaces a T3 electric vehicle that has been in the Airport Police Department fleet since 2007. T3 electric vehicles are highly visible and allow for fast office response. The vehicles have incurred increasing maintenance costs as they have aged and parts are becoming difficult to obtain. The replacement unit will be placed into service at Terminal 1.
Police Total:	\$210,000	
86100 Facilities-Terminal 1		

# Blast Mitigation Containers Acquisition: Replacement Current exterior blast mitigation (bomb-proof) trash containers are aging. They require extensive welding maintenance, which diminishes their blast integrity. The new 40 gallon container will replace a container on the exterior of a terminal building. Total: \$90,000 \$90,000

<u></u>		
Acquisition:	Replacement	The new compactor is a 30 cubic yard, auger-style compactor,
Individual Cost:	\$45,000	which will replace the Terminal 1 main loading dock compactor.
Trade-in Value:	\$0	
Quantity:	1	
Total:	\$45,000	
T-2 - Humphrey Non-secure	Compactor	
Acquisition:	New	The new compactor will service all entities and areas on the non-
Individual Cost:	\$40,000	secure side of Terminal 2.
Quantity:	1	
Total:	\$40,000	
Facilities-Terminal 1 Total:	\$175,000	

#### Main Loading Dock Compactor

#### 86300 Facilities-Energy Management Center

4x4 Crew Cab 1-Ton Tru	UCK
------------------------	-----

Acquisition:	Replacement	0
Individual Cost:	\$50,000	significant corrosion and rust, making repair costs outweigh the
Trade-in Value:	\$0	repair benefits. The replacement vehicle will provide the ability to
Quantity:	1	carry more personnel safely without adding another vehicle to the fleet.
Total:	\$50,000	
Facilities-Energy	\$50,000	
Management Center Total:	φ30,000	
88000 Trades - Electricians		
oooo naues - Eleculcialis		
Genie GS-2632 Scissor Lift		
Acquisition:	New	The new lift will allow personnel to reach the folded plate areas at
Individual Cost:	\$28,000	Terminal 1 in both the secure and non-secure areas.
Quantity:	1	
Total:	\$28,000	
JLG X600AJ Lift		
Acquisition:	New	The new lift has a smaller footprint and weight than other MAC
Individual Cost:	\$160,000	equipment. These features will allow Trades personnel to
	φ100,000	perform maintenance in difficult to reach areas of Terminal 1 and
Quantity:	1	Terminal 2.
Total:	\$160,000	
Trades - Electricians Total:	\$188,000	

#### 88100 Trades - Painters

4X4 Crew Cab Long Box Pickup with Tailgate Lift		
Acquisition:	Replacement	The current vehicle is a 1999 half-ton truck with substantial areas
Individual Cost:	\$50,000	of exterior corrosion, rust and interior damage. Vehicles are
Trade-in Value: Quantity: Total:	\$1,000 1 \$49,000	replaced when repair costs outweigh repair benefits. The replacement truck will be a one-ton truck with a tailgate lift. This will provide fleet standardization within MAC service centers. The standardization decreases parts inventory required by the MAC.

#### Attached Mill

Acquisition: Individual Cost: Quantity: Total:	New The attached mill will remove the pair \$50,000 MSP Runways, a process that was fl 2016 FAA Inspection. The MAC does equipment to perform this work.	agged during the
Trades - Painters Total:	\$99,000	

#### 88200 Trades - Carpenters

4X4 Crew Cab Long Box Pic	4X4 Crew Cab Long Box Pickup with Lift Gate		
Acquisition:	Replacement	The new vehicle will improve job performance efficiency for the	
Individual Cost:	\$50,000	carpenters by accommodating additional employee passengers	
Trade-in Value:	\$1,000	and secure storage of tools and materials, features the current	
Quantity:	1	vehicle does not have. The replacement truck will be a one-ton truck with a tailgate lift. This will provide fleet standardization	
Total:	\$49,000	within MAC service centers. This standardization decreases parts	
		inventory required by the MAC.	
Trades - Carpenters Total:	\$49,000		

#### 88300 Trades - Plumbers

4X4 Crew Cab Long Box wit	h Tailgate Lift	
Acquisition:	•	The current vehicle is a 2000 van. It has substantial areas of
Individual Cost:	\$50,000	exterior corrosion, rust and interior damage. Vehicles are
Trade-in Value:	\$1,000	replaced when repair costs outweigh repair benefits. The
Quantity:	1	change from a van to a one-ton truck with a tailgate lift provides fleet standardization across MAC service centers.
Total:	\$49,000	Standardization decreases fleet parts inventory required by the MAC.
Trades - Plumbers Total:	\$49,000	

#### 89000 Field Maintenance

Crew-Cab Pickup		
Acquisition: Individual Cost: Trade-in Value: Quantity: Total:	Replacement \$45,000 \$24,000 2 \$66,000	transportation and to maintain efficiency and reliability requirements for 24/7 operations. The six vehicles in the service center are rotated in the replacement program. Vehicles are

#### Field Maintenance Airfield Manager Vehicle

Acquisition:	Replacement	The Field Maintenance airfield managers require vehicles for
Individual Cost:	\$60,000	
Trade-in Value:	\$3,000	maintain efficiency and reliability requirements for 24/7
Quantity:	2	operations. The six vehicles in the service center are rotated in the replacement program. Vehicles are replaced when repair
Total:	\$117,000	costs outweigh repair benefits. The replacement vehicle will be
		available for transfer to other areas for other business needs.

Grounds Mowers		
Acquisition:	Replacement	Grounds mowers are used daily on all shifts during mowing
Individual Cost:	\$20,000	season. The MAC's use is higher than the average
Trade-in Value:	\$15,000	manufacturer's suggested use. This request takes into account
Quantity:	3	benchmarking of current commercial mower usage with other grounds departments in Minneapolis.
Total:	\$45,000	grounds departments in Minneapolis.
High-Speed Snow Blow	ver	
Acquisition:	Replacement	
Individual Cost:	\$875,000	controls to help decrease operator fatigue. It also provides
Trade-in Value:	\$40,000	upgraded efficiency in design. The replacement vehicle is
Quantity:	2	needed for operational efficiency and reliability during snow events. Another outcome is fleet standardization with all
Total:	\$1,710,000	high-speed snow blower vehicles in this class.
Multi-Function Snow R	emoval Vehicle	
Acquisition:	Replacement	The replacement vehicle has ergonomically designed cab
Individual Cost:	\$950,000	controls to help decrease operator fatigue. It also provides
Trade-in Value:	\$0	upgraded efficiency in design. The replacement vehicle is
Quantity:	1	needed for operational efficiency and reliability during snow
Total:	\$950,000	events and provides fleet standardization with all multi-function vehicles in this class.
Off-Road Snow Blower	Attachment	
Acquisition:	Replacement	
Individual Cost:	\$200,000	schedule costs are greater than the repair benefit. This
Trade-in Value:	\$15,000	attachment is needed for operational efficiency and reliability
Quantity:	1	during snow events, as it provides off-road snow removal capabilities in airfield areas that are regulated by snow height
Total:	\$185,000	requirements.
Parking Ramp Cleaning	g Vehicle	
Acquisition:	Replacement	Realignment of parking ramps have created an increased annual
Individual Cost:	\$225,000	cleaning area. The current vehicle lacks technology for efficiency
Trade-in Value:	\$5,000	in employee time and cleaning capabilities. MAC personnel have
Quantity:	¢0,000 1	worked with the vendor to redesign the equipment to improve
Total:	\$220,000	efficiency. Realignment of parking ramps have created an
- otali	φ220,000	increased annual cleaning area. The replacement vehicle will provide necessary operational efficiency.
Road Truck with Plow a	and Sander Wing	
Acquisition:	Replacement	The current 2006 vehicle has substantial areas of exterior
Individual Cost:	\$275,000	corrosion, rust and electrical damage. Repair costs are greater
Trade-in Value:	\$20,000	than the repair benefits. The vehicle is needed for operational
Quantity:	1	efficiency and reliability of landside maintenance during snow
Total:	\$255,000	events. The replacement vehicle provides fleet standardization with all road truck vehicles in this class.
	÷,	

Runway Rotary Broom Acquisition: Individual Cost: Trade-in Value: Quantity: Total:	Replacement \$814,000 \$9,000 1 \$805,000	The replacement equipment has ergonomically designed cab controls to help decrease operator fatigue. It also provides upgraded efficiency in design. The replacement vehicle is needed for operational efficiency and reliability during snow events. New technology in the replacement vehicle provides extended broom core life due to an auto function adjustment feature. This provides fleet standardization with all runway rotary broom vehicles in this class. The replacement vehicle may also be utilized by MAC Reliever Airports.
Tractor with Plow Attachme	ent-6000 Series	
Acquisition: Individual Cost: Trade-in Value: Quantity: Total:	Replacement \$220,000 \$40,000 2 \$400,000	Current two-wheel drive equipment lacks the functionality and efficiency the replacement four-wheel drive equipment will provide. The replacement plows will also conform to fleet standardization. Current equipment can be assigned to Reliever Airports.
Tractor with Plow Attachme	ent-8000 Series	
Acquisition: Individual Cost: Trade-in Value: Quantity: Total:	Replacement \$250,000 \$40,000 1 \$210,000	The current equipment has higher than average repair costs. The new model is more environmentally friendly and has higher horsepower for efficiency with both snow removal and mowing.
Field Maintenance Total:	\$4,963,000	
90200 Relievers - St. Paul		

Acquisition:	Replacement	The new plow will replace a bent and rusted older plow. It will
Individual Cost:	\$10,000	allow for universal flexibility to sand the gate areas, the
Trade-in Value:	\$0	Administration Building and air traffic control parking lots.
Quantity:	1	
Total:	\$10,000	
15-Yard Sanding Truck		
Acquisition:	Replacement	5 5 1 11
Individual Cost:	\$150,000	snow and ice control management. The replacement truck will
Trade-in Value:	\$2,000	allow for a consistent application of sand, including blending of
Quantity:	1	various materials. The large volume sander allows an operator to treat the airfield environs guickly to maintain or raise condition
Total:	\$148,000	reporting.
Mechanic Service Vehicle		
Acquisition:	Replacement	The replacement service truck will maintain and repair the
Individual Cost:	\$135,000	capital equipment fleet in the eastern MAC Reliever Airports.
Trade-in Value:	\$2,000	
Quantity:	1	
Total:	\$133,000	

Metal Shelving		
Acquisition:	New	Metal shelving will allow for organization of premium storage
Individual Cost:	\$30,000	space. The shelves will be configured to provide horizontal and
Quantity:	1	vertical space. Unused vertical space will be converted into
Total:	\$30,000	heavy materials storage.
	<i>\\</i> 00,000	
V-Box 3-Yard Sander for 1-7	Fon Truck	
Acquisition:	Replacement	
Individual Cost:	\$11,000	for sanding operations using the one-ton truck. The new
Trade-in Value:	\$0	equipment will increase the safety and efficiency of treating the public roadways, gate entrances and parking lots with a
Quantity:	1	consistent flow rate and coverage area.
Total:	\$11,000	
Relievers - St. Paul Total:	\$332,000	
90400 Relievers - Airlake		
Skidsteer		
Acquisition:	New	The new skidsteer will remove snow around buildings, clear
Individual Cost:	\$46,000	property lines during the summer and do dirt work around the
Quantity:	φ <del>4</del> 0,000 1	airport.
Total:		
	\$46,000	
Relievers - Airlake Total:	\$46,000	
90600 Relievers - Crystal		
90600 Relievers - Crystal 15-Foot Pull Behind Mower		
-	Replacement	The new unit replaces a 15' pull behind mower which is 20 years
15-Foot Pull Behind Mower	Replacement \$30,000	old and has outlived its useful life. The replacement unit will be
15-Foot Pull Behind Mower Acquisition:	•	
15-Foot Pull Behind Mower Acquisition: Individual Cost:	\$30,000 \$2,000 1	old and has outlived its useful life. The replacement unit will be
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value:	\$30,000 \$2,000	old and has outlived its useful life. The replacement unit will be
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: 15-Foot Self Propelled Mow	\$30,000 \$2,000 1 \$28,000	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield.
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: <u>15-Foot Self Propelled Mow</u> Acquisition:	\$30,000 \$2,000 1 \$28,000 er Replacement	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield. The new mower will replace a unit that is inadequate for the
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: 15-Foot Self Propelled Mow Acquisition: Individual Cost:	\$30,000 \$2,000 1 \$28,000 er Replacement \$85,000	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield.
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: <u>15-Foot Self Propelled Mow</u> Acquisition: Individual Cost: Trade-in Value:	\$30,000 \$2,000 1 \$28,000 er Replacement	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield. The new mower will replace a unit that is inadequate for the
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: <u>15-Foot Self Propelled Mow</u> Acquisition: Individual Cost: Trade-in Value: Quantity:	\$30,000 \$2,000 1 \$28,000 er Replacement \$85,000 \$5,000 1	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield. The new mower will replace a unit that is inadequate for the
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: <u>15-Foot Self Propelled Mow</u> Acquisition: Individual Cost: Trade-in Value:	\$30,000 \$2,000 1 \$28,000 er Replacement \$85,000	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield. The new mower will replace a unit that is inadequate for the
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: <u>15-Foot Self Propelled Mow</u> Acquisition: Individual Cost: Trade-in Value: Quantity:	\$30,000 \$2,000 1 \$28,000 er Replacement \$85,000 \$5,000 1	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield. The new mower will replace a unit that is inadequate for the
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: <u>15-Foot Self Propelled Mow</u> Acquisition: Individual Cost: Trade-in Value: Quantity: Total:	\$30,000 \$2,000 1 \$28,000 er Replacement \$85,000 \$5,000 1	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield. The new mower will replace a unit that is inadequate for the required task. The unit to be replaced is currently the backup management
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: <u>15-Foot Self Propelled Mow</u> Acquisition: Individual Cost: Trade-in Value: Quantity: Total: SUV	\$30,000 \$2,000 1 \$28,000 eer Replacement \$85,000 \$5,000 1 \$80,000	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield.         The new mower will replace a unit that is inadequate for the required task.         The unit to be replaced is currently the backup management vehicle. It has 202,000 miles on it and is due for replacement.
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: 15-Foot Self Propelled Mow Acquisition: Individual Cost: Trade-in Value: Quantity: Total: SUV Acquisition:	\$30,000 \$2,000 1 \$28,000 er Replacement \$85,000 \$5,000 1 \$80,000 Replacement	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield.         The new mower will replace a unit that is inadequate for the required task.         The unit to be replaced is currently the backup management vehicle. It has 202,000 miles on it and is due for replacement. The new vehicle will become the primary vehicle, and the
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: <u>15-Foot Self Propelled Mow</u> Acquisition: Individual Cost: Trade-in Value: Quantity: Total: SUV Acquisition: Individual Cost:	\$30,000 \$2,000 1 \$28,000 er Replacement \$85,000 \$5,000 1 \$80,000 Replacement \$35,000	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield.         The new mower will replace a unit that is inadequate for the required task.         The unit to be replaced is currently the backup management vehicle. It has 202,000 miles on it and is due for replacement.
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: 15-Foot Self Propelled Mow Acquisition: Individual Cost: Trade-in Value: Quantity: Total: SUV Acquisition: Individual Cost: Trade-in Value:	\$30,000 \$2,000 1 \$28,000 er Replacement \$85,000 \$5,000 1 \$80,000 Replacement \$35,000	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield.         The new mower will replace a unit that is inadequate for the required task.         The unit to be replaced is currently the backup management vehicle. It has 202,000 miles on it and is due for replacement. The new vehicle will become the primary vehicle, and the
15-Foot Pull Behind Mower Acquisition: Individual Cost: Trade-in Value: Quantity: Total: 15-Foot Self Propelled Mow Acquisition: Individual Cost: Trade-in Value: Quantity: Total: SUV Acquisition: Individual Cost: Trade-in Value: Quantity:	\$30,000 \$2,000 1 \$28,000 er Replacement \$85,000 \$5,000 1 \$80,000 Replacement \$35,000 \$2,000 1	old and has outlived its useful life. The replacement unit will be used heavily to mow the airfield.         The new mower will replace a unit that is inadequate for the required task.         The unit to be replaced is currently the backup management vehicle. It has 202,000 miles on it and is due for replacement. The new vehicle will become the primary vehicle, and the

CAPITAL EQUIPMENT TOTAL: \$6,586,500

## **Technology Projects**

## 79000 Information Technology

Assist Team System		
Acquisition: Individual Cost: Quantity: Total:	New \$50,000 1 \$50,000	
Enterprise Cyber Security Acquisition:	New	The MAC received a Cybersecurity Framework scorecard from
Individual Cost:	\$10,000	the U.S. Department of Commerce's National Institute of Stands
Quantity:	1	and Technology. The scorecard highlighted a major gap or lack
Total:	\$10,000	of a cyber security program. Enterprise Cyber Security funds will reduce the MAC's cyber security risk as currently assessed in the roadmap provided by the MAC consultant Aeritae. These funds would be used to protect the MAC's most critical Information Technology assets, which impact the life, reputation and ability to operate as an airport. The MAC must develop a security program and processes to secure data and assets, provide governance and respond to incidents. This work requires staffing resources, including program managers, business analysts and subject matter experts to be able to deliver and mitigate these risks.
Enterprise Fleet Strategy		
Acquisition:	New	
Individual Cost:	\$110,000	strategy, as well as business and technology changes to create a "centralized" data repository, including MSP and Reliever fleet.
Quantity: Total:	1 \$110,000	This repository will serve as management's primary platform for enterprise fleet management, including the benefit of improved analytics, tracking, monitoring and reporting to aid critical fleet decisions.
Enterprise GIS		
Acquisition:		Geographic Information System (GIS) capabilities are key to the MAC's ability to provide mapping and location services for any
Individual Cost:	\$10,000 1	software application. Nearly all MAC systems have a need for
Quantity: Total:	۱ \$10,000	GIS. MAC currently has fragmented and disjointed capabilities. The need for GIS is a common theme from all departments and impacts the entire organization at all levels. It is imperative that the IT service center staffs, builds and supports a GIS foundation that all MAC can use. These funds are for program management, vendor staffing, technical support, data management, GIS application development and data acquisition. These funds are part of a three-year plan to grow GIS capabilities.

Enterprise Hosting		
Acquisition: Individual Cost: Quantity: Total:	New \$950,000 1 \$950,000	Enterprise hosting will provide additional storage area network (SAN) storage. The MAC will continue the retiring of end of life storage and migrating the data to an enterprise storage solution. These funds include an expansion for the MAC's secondary data center of VMware, Inc., with licensing with VMware, Inc. to support the secondary Data Center. Microsoft Server OS Licensing for the secondary data center will include support for the data center and server hardware. Finally, these funds include blade servers for the secondary data center.
Enterprise Networking		
Acquisition: Individual Cost: Quantity: Total:	New \$10,000 1 \$10,000	Enterprise Networking includes funds for Cisco edge and aggregation switches. These switches will be purchased at a bulk discount and will allow the MAC to have a supply on-hand for projects.
Enterprise Web and Mobile		
Enterprise Web and Mobile Acquisition: Individual Cost: Quantity: Total:	New \$170,000 1 \$170,000	The Enterprise Web and Mobile capital project will fund operational updates to current or future interior design directories (IDD) at Terminal 1 and Terminal 2. Additional features or support of IDD at MSP may be required outside of this project scope or following completion of the project. Additionally, the MAC has a new web presence on a completely responsive
		platform. This project would bring the remaining domains onto this new platform.
NCAR Runway Friction and Clos		
Acquisition: Individual Cost:	\$125,000	The National Center for Atmospheric Research created a customized version of the Federal Highway Administration's
Quantity:	ψ120,000 1	program that provides objective guidance for winter road
Total:	\$125,000	maintenance decision makers and applied this to the airline industry to better predict the surface friction and runway closure times. Phase 1 of this project included the implementation of this system. This request is for Phase 2, which will include data verification, analysis and enhancements to improve predictions. Phase 3 will be a future request to further analyze data and improve the predictions. The major benefit is to automate and leverage these prediction times to provide safer and more accurate analysis of when to close runways due to reduced runway friction and poor weather.
Parking System Enhancements		
Acquisition: Individual Cost: Quantity: Total:	New \$50,000 1 \$50,000	Parking System Enhancements will give parking customers the option of reserving their parking space at the same time they reserve their airline tickets. This has become a feature that many of our customers expect. It will also allow Landside Operations to utilize variable rate pricing to incentivize parkers to self-divert unless they require the convenience of parking in close proximity to the terminal. These enhancements will include a parking guidance system, including installing red and green lights to guide customers into open parking spaces.

Public Safety Radios		
Acquisition: Individual Cost: Quantity: Total:	New \$655,000 1 \$655,000	Public Safety funds will complete the radio replacement project began in 2016. New equipment will replace radios that have reached the end of their useful life and bring the entire radio fleet within the Airport Police Department (APD) to the same form factor. This high priority project will complete the project by replacing 15 at their end-of-life in one class and 113 in a second class. Public Safety funds will also be used to purchase 150 body cams for the APD and 20-25 terabytes of storage for body cam video. Finally, 20 in-vehicle routers will replace equipment used for perimeter intrusion detection that is approaching the end of its warranty.
Revenue Control System Enh	ancements	
Acquisition: Individual Cost: Quantity: Total:	New \$458,480 1 \$458,480	The MAC Automatic Vehicle Information System (MAVIS) database will be upgraded to the latest version of the database. It will then be migrated to the Data Center. Funds will also purchase an upgraded Crystal Reports server, five access licenses and installation services to enhance MAVIS front end reporting. Also, a six-year-old storage area network (SAN) for the ePark Elite and MAVIS parking systems will be replaced. It is at its end of life, and the replacement will comply with PCI security requirements. Finally, Microsoft software and developer labor will be funded for a refresh of the MAVIS database.
Runway Sensor System Upgra	ade	
Acquisition: Individual Cost: Quantity: Total:	New \$408,000 1 \$408,000	The current runway sensor Road Weather Information System is obsolete and is being phased out by the vendor. The upgrade includes hardware, installation and commissioning of the new system.
System enhancements		
Acquisition: Individual Cost: Quantity: Total:	New \$395,000 1 \$395,000	System enhancements will enable improvements to software that already is being used by the MAC. Re-evaluating, updating and enhancing existing software enables the business to adapt best practices associated with their current tools. Areas of focus will be fleet management, airport safety management regulations compliance, runway friction and closure prediction and transportation network company (TNC) systems.
Taxi Virtual Dispatching		
Acquisition: Individual Cost: Quantity: Total:	New \$100,000 1 \$100,000	An improved version of eDispatch will be implemented. MSP taxi drivers will be dispatched using a system to which they can login on their phones.
Information Technology Total	: \$3,501,480	
GRAND TOTAL CAPITAL EQUIPMENT AND TECHNOLOGY:	\$10,087,980	

#### **Capital Improvement Program Expenditures**

On December 18, 2017, the Commission adopted the 2018-2024 Capital Improvement Program (CIP). The 7year CIP relating to construction projects on the Commission's airport system consists of the following elements:

- 1. **2018 Capital Improvement Projects** These are projects that have been reasonably defined for implementation in the upcoming calendar year in this case 2018.
- 2019 Capital Improvement Program These are projects that have been identified in the second year of the program which have a need or potential need but require further study in order to properly determine the scope, feasibility, and cost of the project.
- 3. **2020-2024 Capital Improvement Plan** This encompasses the last five years of the total program and consists of projects that appear to be needed during the period. This portion of the program assists in financial planning and meets the requirements of the Metropolitan Council's Investment Framework.



The projects identified for the Capital Improvement Programs are summarized by year and totaled as follows:

Capital Improvement Projects		Year						
Projects	2018	2019	2020-2024					
MSP End of Life/Replacement Projects								
10 - Terminal 1 Lindbergh								
Passenger Boarding Bridge Replacements	\$ 4,000,000	\$ 4,000,000	\$ 21,000,000	\$ 29,000,0				
Tram Systems Retrofit and Equipment	\$ 1,500,000	\$ 1,500,000		\$ 3,000,0				
Mezzanine HVAC/AHU Replacements & Penthouses	\$ 17,000,000			\$ 17,000,0				
Recarpeting Program			\$ 14,000,000	\$ 14,000,0				
Replace Terminal 1 Tug Doors		\$ 600,000		\$ 600,0				
13 - Energy Management Center								
VAV Box Replacement			\$ 3,000,000	\$ 3,000,0				
21 - Field and Runways								
Taxiway S Reconstruction	\$ 10,000,000			\$ 10,000,0				
Taxiway D Reconstruction			\$ 10,000,000	\$ 10,000,0				
Sanitary Sewer Replacement 34th Avenue			\$ 2,150,000	\$ 2,150,0				
Snow Melter Upgrades/Modifications	\$ 250,000	\$ 750,000		\$ 1,000,0				
Sanitary Sewer Replacement Taxiway R			\$ 3,250,000	\$ 3,250,0				
26 - Terminal Roads/Landside								
Lower Level Roadway Rehabilitation			\$ 1,100,000	\$ 1,100,0				
Upper Level Roadway Rehabilitation			\$ 2,000,000	\$ 2,000,0				
Upper Level Roadway Electrical System Rehabilitation			\$ 750,000	\$ 750,0				
Variable Message Signs Replacements - Phase 3			\$ 1,600,000	\$ 1,600,0				
28th Avenue Water main Replacement		\$ 1,250,000		\$ 1,250,0				
34th Avenue Traffic Control	\$ 250,000			\$ 250,0				
36 - Terminal 2 Humphrey								
Public Walk Aisle Terrazzo Floor Installation		\$ 1,700,000		\$ 1,700,0				
Recarpeting Program			\$ 2,000,000	\$ 2,000,0				
66 - Fire								
MSP Campus Fire Alarm System Upgrade/Transition	\$ 2,500,000	\$ 1,000,000	\$ 1,000,000	\$ 4,500,0				
ARFF #2	\$ 250,000		\$ 10,500,000	\$ 10,750,0				
MSP End of Life/Replacement Subtotal	\$ 35,750,000	\$ 10,800,000	\$ 72,350,000	\$ 118,900,0				
MSP IT Projects								
10 - Terminal 1 Lindbergh								
IT Miscellaneous Modifications	\$ 4,600,000	\$ 8,400,000	\$ 45,000,000	\$ 58,000,0				
Telecom Room Equipment Continuity (TREC)	\$ 1,000,000	\$ 1,500,000	\$ 4,500,000	\$ 7,000,0				
Intelligent Monitoring and Control Systems (IMACS)	\$ 1,500,000	\$ 1,500,000	\$ 3,000,000	\$ 6,000,0				
EVIDS/MUFIDs Digital Signs	\$ 800,000	. ,,		\$ 800,0				
63 - Police	+ 100,000			, 250,0				
iVISN Program	\$ 3,700,000			\$ 3,700,0				
Card Access Modifications	, 2,,	\$ 2,000,000	\$ 3,500,000	\$ 5,500,0				
MSP IT Subtotal	\$ 11,600,000	1 ,,	\$ 56,000,000	\$ 81,000,0				



34th Avenue Light Rail Transit Station



Aircraft Rescue & Fire Fighting Station #2

Capital Improvement Projects			Total		
Projects	2018	2019	2020-2024		
MSP Long Term Comprehensive Plan Projects					
10 - Terminal 1 Lindbergh					
D-Pod Outbound Baggage System			\$ 5,000,000	\$	5,000,00
FIS Recheck Operational Improvements			\$ 8,400,000	\$	8,400,00
MSP Long Term Comp Plan		\$ 1,500,000		\$	1,500,00
Baggage Claim/Ticket Lobby Operational Improvements		\$ 81,000,000	\$ 84,400,000		165,400,00
Baggage Handling System	\$ 37,900,000		\$ 22,100,000	\$	60,000,00
South Security Exit and Façade Expansion	\$ 46,300,000		1 , -,	\$	46,300,00
East Curbside Check in	\$ 4,900,000			\$	4,900,00
Checkpoint Expansion	,		\$ 16,400,000	\$	16,400,00
Lower Level Curbside Expansion			\$ 12,000,000	\$	12,000,00
Armed Forces Service Center Relocation		\$ 1,100,000	+,,.	\$	1,100,00
Valet Parking Lobby and Restroom Upgrade		\$ 5,000,000		\$	5,000,00
Automated Security Lanes	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$	9,000,00
Unstaffed Exit Lanes-North Exit	÷ 3,000,000		\$ 2,500,000	\$	2,500,00
21 - Field and Runways			- 2,300,000	Ŷ	2,500,00
Taxiway C1 Construction		\$ 6,000,000		\$	6,000,00
31 - Parking		÷ 0,000,000		Ļ	0,000,00
T1 Parking Ramp - Parking Ramp Modifications		\$ 17,000,000		\$	17,000,00
Orange Ramp Additional Elevators		\$ 17,000,000	\$ 2,000,000	\$	2,000,00
36 - Terminal 2 Humphrey			\$ 2,000,000	ç	2,000,00
FIS Baggage Claim Improvements			\$ 1,000,000	\$	1,000,00
Automated Security Lanes		\$ 3,000,000	\$ 1,000,000	\$ \$	6,000,00
North Gate Expansion Design Fees		\$ 5,000,000	\$ 5,000,000	\$ \$	
	ć 02.400.000	¢ 117 COD 000		<u> </u>	5,000,00
MSP Long Term Comprehensive Plan Subtotal	\$ 92,100,000	\$ 117,600,000	\$164,800,000	\$	374,500,00
MSP Maintenance/Facility Upgrade Projects					
10 - Terminal 1 Lindbergh					
Restroom Upgrade Program	\$ 8,600,000		\$ 8,000,000	\$	17,100,00
Way-Finding Sign Backlighting Replacement	\$ 1,600,000	\$ 1,600,000	\$ 1,600,000	\$	4,800,00
Folded Plate Repairs			\$ 35,600,000	\$	35,600,00
G Concourse Moving Walks	\$ 5,000,000		\$ 5,000,000	\$	10,000,00
Lighting Infrastructure Technology and Equipment (LITE)		\$ 1,500,000	\$ 7,750,000	\$	9,250,00
T1 Public Walk Aisle Terrazzo Floor Installation			\$ 13,300,000	\$	13,300,00
Art Display Areas	\$ 250,000	\$ 500,000	\$ 750,000	\$	1,500,00
Art Master Plan	\$ 305,000	\$ 870,000	\$ 2,162,500	\$	3,337,50
Observation Deck Improvements			\$ 1,600,000	\$	1,600,00
Airside Operations Center			\$ 1,250,000	\$	1,250,00
Employee Breakroom	\$ 250,000	\$ 250,000		\$	500,00
13 - Energy Management Center					
Energy Savings Program	\$ 2,000,000		\$ 6,000,000	\$	8,000,00
Air Handling Unit Safety Upgrades			\$ 550,000	\$	550,00
Indoor Air Quality Monitoring			\$ 660,000	\$	660,00
Victaulic Piping Replacement			\$ 5,000,000	\$	5,000,00
Concourse G Energy Efficiency Projects			\$ 2,000,000	\$	2,000,00
LED Lighting Conversion in Valet Parking			\$ 500,000	\$	500,00
21 - Field and Runways					
AOA Gate Improvements			\$ 3,000,000	\$	3,000,00
Taxiway J		\$ 150,000		\$	150,00
Runway LED Lighting Upgrade			\$ 6,850,000	\$	6,850,00
Runway 4-22 In-Pavement Guard Lights		\$ 500,000		\$	500,00
Taxiway Bravo & Quebec Centerline Lights		\$ 6,400,000		\$	6,400,00
,		,,	\$ 7,000,000	\$	7,000,00

MAC Storage Facility         56 - Trades/Maintenance Buildings         South Field Maintenance Building Wash Bay         63 - Police         Safety & Operations Center         Perimeter Fence Intrusion Detection System         66 - Fire         Campus Fire Protection         70 - General Office/Administration         GO Building Improvements         76 - Environment         Runway 12R-30L Glycol Force Main Environmental Improvements         Storm Sewer Rehabilitation         T2 Remote Ramp Lot/Drainage Improvements         Ground Service Equipment Electrical Charging Stations         Lift Stations at Pond 1 and 2         MSP Ongoing Maintenance Programs	20 \$ 250,00 \$ 500,00 \$ 1,500,00 \$ 1,500,00 \$ 20,755,00	0 5 0 0 0 5 0 5 0 5 0 5 0 5 0 5	500,000		2020-2024 2,000,000 200,000 200,000 200,000 3,000,000 3,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000,000 800,000 200,000 9,000,000 1,300,000 35,250,000 2,500,000 1,000,000 1,400,000 3,300,000
31 - Parking         Parking Ramp Railing Refinishing         36 - Terminal 2 Humphrey         Skyway to LRT Flooring Installation         Employee Breakroom         T2 Shuttle Waiting Area Expansion         46 - Hangars & Other Buildings         MAC Storage Facility         56 - Trades/Maintenance Buildings         South Field Maintenance Building Wash Bay         63 - Police         Safety & Operations Center         Perimeter Fence Intrusion Detection System         66 - Fire         Campus Fire Protection         70 - General Office/Administration         GO Building Improvements         76 - Environment         Runway 12R-30L Glycol Force Main Environmental Improvements         Storm Sewer Rehabilitation         T2 Remote Ramp Lot/Drainage Improvements         Ground Service Equipment Electrical Charging Stations         Lift Stations at Pond 1 and 2         MSP Ongoing Maintenance Programs	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$	500,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	800,000 200,000 200,000 1,300,000 35,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	800,00 200,00 9,000,00 1,300,00 35,250,00 3,000,00 2,500,00 1,000,00
Parking Ramp Railing Refinishing         36 - Terminal 2 Humphrey         Skyway to LRT Flooring Installation         Employee Breakroom         T2 Shuttle Waiting Area Expansion         46 - Hangars & Other Buildings         MAC Storage Facility         56 - Trades/Maintenance Buildings         South Field Maintenance Building Wash Bay         63 - Police         Safety & Operations Center         Perimeter Fence Intrusion Detection System         66 - Fire         Campus Fire Protection         70 - General Office/Administration         GO Building Improvements         76 - Environment         Runway 12R-30L Glycol Force Main Environmental Improvements         Storm Sewer Rehabilitation         T2 Remote Ramp Lot/Drainage Improvements         Ground Service Equipment Electrical Charging Stations         Lift Stations at Pond 1 and 2         MSP Ongoing Maintenance Programs	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$	500,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	800,000 200,000 200,000 1,300,000 35,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	800,00 200,00 9,000,00 1,300,00 35,250,00 3,000,00 2,500,00 1,000,00
36 - Terminal 2 Humphrey       Skyway to LRT Flooring Installation         Employee Breakroom       T         T2 Shuttle Waiting Area Expansion       46 - Hangars & Other Buildings         MAC Storage Facility       56 - Trades/Maintenance Buildings         South Field Maintenance Building Wash Bay       63 - Police         Safety & Operations Center       Perimeter Fence Intrusion Detection System         66 - Fire       Campus Fire Protection         70 - General Office/Administration       70 - General Office/Administration         GO Building Improvements       76 - Environment         Runway 12R-30L Glycol Force Main Environmental Improvements       5torm Sewer Rehabilitation         T2 Remote Ramp Lot/Drainage Improvements       Ground Service Equipment Electrical Charging Stations         Lift Stations at Pond 1 and 2       MSP Maintenance/Facility Upgrades Subtotal	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$	500,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	800,000 200,000 200,000 1,300,000 35,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	800,00 200,00 9,000,00 1,300,00 35,250,00 3,000,00 2,500,00 1,000,00
Skyway to LRT Flooring InstallationEmployee BreakroomT2 Shuttle Waiting Area Expansion46 - Hangars & Other BuildingsMAC Storage Facility56 - Trades/Maintenance BuildingsSouth Field Maintenance Building Wash Bay63 - PoliceSafety & Operations CenterPerimeter Fence Intrusion Detection System66 - FireCampus Fire Protection70 - General Office/AdministrationGO Building Improvements76 - EnvironmentRunway 12R-30L Glycol Force Main Environmental ImprovementsStorm Sewer RehabilitationT2 Remote Ramp Lot/Drainage ImprovementsGround Service Equipment Electrical Charging StationsLift Stations at Pond 1 and 2MSP Ongoing Maintenance Programs	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$	500,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 200,000 1,300,000 35,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 200,000 9,000,000 1,300,000 35,250,000 3,000,000 2,500,000 1,000,000
Skyway to LRT Flooring InstallationEmployee BreakroomT2 Shuttle Waiting Area Expansion46 - Hangars & Other BuildingsMAC Storage Facility56 - Trades/Maintenance BuildingsSouth Field Maintenance Building Wash Bay63 - PoliceSafety & Operations CenterPerimeter Fence Intrusion Detection System66 - FireCampus Fire Protection70 - General Office/AdministrationGO Building Improvements76 - EnvironmentRunway 12R-30L Glycol Force Main Environmental ImprovementsStorm Sewer RehabilitationT2 Remote Ramp Lot/Drainage ImprovementsGround Service Equipment Electrical Charging StationsLift Stations at Pond 1 and 2MSP Ongoing Maintenance Programs	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$	500,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 200,000 1,300,000 35,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 200,000 9,000,000 35,250,000 3,000,000 2,500,000 1,000,000
T2 Shuttle Waiting Area Expansion46 - Hangars & Other BuildingsMAC Storage Facility56 - Trades/Maintenance BuildingsSouth Field Maintenance Building Wash Bay63 - PoliceSafety & Operations CenterPerimeter Fence Intrusion Detection System66 - FireCampus Fire Protection70 - General Office/AdministrationGO Building Improvements76 - EnvironmentRunway 12R-30L Glycol Force Main Environmental ImprovementsStorm Sewer RehabilitationT2 Remote Ramp Lot/Drainage ImprovementsGround Service Equipment Electrical Charging StationsLift Stations at Pond 1 and 2MSP Maintenance/Facility Upgrades Subtotal	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$	500,000	\$ 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	200,000 1,300,000 35,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 9,000,000 1,300,000 35,250,000 3,000,000 2,500,000 1,000,000
46 - Hangars & Other Buildings       MAC Storage Facility         56 - Trades/Maintenance Buildings       South Field Maintenance Building Wash Bay         63 - Police       Safety & Operations Center         Perimeter Fence Intrusion Detection System       Fire         66 - Fire       Campus Fire Protection         70 - General Office/Administration       GO Building Improvements         76 - Environment       Runway 12R-30L Glycol Force Main Environmental Improvements         Storm Sewer Rehabilitation       T2 Remote Ramp Lot/Drainage Improvements         Ground Service Equipment Electrical Charging Stations       Lift Stations at Pond 1 and 2         MSP Ongoing Maintenance Programs       Forgames	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$	500,000	\$ 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1,300,000 35,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	9,000,000 1,300,000 35,250,000 3,000,000 2,500,000 1,000,000 1,400,000
MAC Storage Facility56 - Trades/Maintenance BuildingsSouth Field Maintenance Building Wash Bay63 - PoliceSafety & Operations CenterPerimeter Fence Intrusion Detection System66 - FireCampus Fire Protection70 - General Office/AdministrationGO Building Improvements76 - EnvironmentRunway 12R-30L Glycol Force Main Environmental ImprovementsStorm Sewer RehabilitationT2 Remote Ramp Lot/Drainage ImprovementsGround Service Equipment Electrical Charging StationsLift Stations at Pond 1 and 2MSP Maintenance/Facility Upgrades SubtotalMSP Ongoing Maintenance Programs	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$	500,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	35,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,300,000 35,250,000 3,000,000 2,500,000 1,000,000 1,400,000
56 - Trades/Maintenance BuildingsSouth Field Maintenance Building Wash Bay63 - PoliceSafety & Operations CenterPerimeter Fence Intrusion Detection System66 - FireCampus Fire Protection70 - General Office/AdministrationGO Building Improvements76 - EnvironmentRunway 12R-30L Glycol Force Main Environmental ImprovementsStorm Sewer RehabilitationT2 Remote Ramp Lot/Drainage ImprovementsGround Service Equipment Electrical Charging StationsLift Stations at Pond 1 and 2MSP Maintenance/Facility Upgrades SubtotalMSP Ongoing Maintenance Programs	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$	500,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	35,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,300,00 35,250,00 3,000,00 2,500,00 1,000,00 1,400,00
South Field Maintenance Building Wash Bay63 - PoliceSafety & Operations CenterPerimeter Fence Intrusion Detection System66 - FireCampus Fire Protection70 - General Office/AdministrationGO Building Improvements76 - EnvironmentRunway 12R-30L Glycol Force Main Environmental ImprovementsStorm Sewer RehabilitationT2 Remote Ramp Lot/Drainage ImprovementsGround Service Equipment Electrical Charging StationsLift Stations at Pond 1 and 2MSP Maintenance/Facility Upgrades SubtotalMSP Ongoing Maintenance Programs	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	35,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$	35,250,00 3,000,00 2,500,00 1,000,00 1,400,00
63 - PoliceSafety & Operations CenterPerimeter Fence Intrusion Detection System66 - FireCampus Fire Protection70 - General Office/AdministrationGO Building Improvements76 - EnvironmentRunway 12R-30L Glycol Force Main Environmental ImprovementsStorm Sewer RehabilitationT2 Remote Ramp Lot/Drainage ImprovementsGround Service Equipment Electrical Charging StationsLift Stations at Pond 1 and 2MSP Maintenance/Facility Upgrades SubtotalMSP Ongoing Maintenance Programs	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	35,000,000 3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$ \$ \$	35,250,00 3,000,00 2,500,00 1,000,00 1,400,00
Safety & Operations CenterPerimeter Fence Intrusion Detection System66 - FireCampus Fire Protection70 - General Office/AdministrationGO Building Improvements76 - EnvironmentRunway 12R-30L Glycol Force Main Environmental ImprovementsStorm Sewer RehabilitationT2 Remote Ramp Lot/Drainage ImprovementsGround Service Equipment Electrical Charging StationsLift Stations at Pond 1 and 2MSP Maintenance/Facility Upgrades SubtotalMSP Ongoing Maintenance Programs	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$	3,000,00 2,500,00 1,000,00 1,400,00
Perimeter Fence Intrusion Detection System       6         66 - Fire       6         Campus Fire Protection       7         70 - General Office/Administration       6         GO Building Improvements       7         76 - Environment       7         Runway 12R-30L Glycol Force Main Environmental Improvements       7         Storm Sewer Rehabilitation       7         T2 Remote Ramp Lot/Drainage Improvements       7         Ground Service Equipment Electrical Charging Stations       1         Lift Stations at Pond 1 and 2       1         MSP Maintenance/Facility Upgrades Subtotal       1         MSP Ongoing Maintenance Programs       1	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,000,000 1,500,000 500,000 1,400,000	\$ \$ \$ \$ \$	3,000,00 2,500,00 1,000,00 1,400,00
Perimeter Fence Intrusion Detection System       6         66 - Fire       6         Campus Fire Protection       7         70 - General Office/Administration       6         GO Building Improvements       7         76 - Environment       7         Runway 12R-30L Glycol Force Main Environmental Improvements       7         Storm Sewer Rehabilitation       7         T2 Remote Ramp Lot/Drainage Improvements       7         Ground Service Equipment Electrical Charging Stations       1         Lift Stations at Pond 1 and 2       1         MSP Maintenance/Facility Upgrades Subtotal       1         MSP Ongoing Maintenance Programs       1	\$ 500,00 \$ 500,00 \$ 1,500,00	0 \$		\$ \$ \$ \$ \$ \$ \$	1,500,000 500,000 1,400,000	\$ \$ \$ \$	2,500,00 1,000,00 1,400,00
Campus Fire Protection70 - General Office/AdministrationGO Building Improvements76 - EnvironmentRunway 12R-30L Glycol Force Main Environmental ImprovementsStorm Sewer RehabilitationT2 Remote Ramp Lot/Drainage ImprovementsGround Service Equipment Electrical Charging StationsLift Stations at Pond 1 and 2MSP Maintenance/Facility Upgrades SubtotalMSP Ongoing Maintenance Programs	\$ 500,00 \$ 1,500,00	0 \$		\$ \$ \$ \$	1,500,000 500,000 1,400,000	\$ \$ \$	1,000,00
70 - General Office/Administration       GO Building Improvements         GO Building Improvements       For a constraint of the second s	\$ 500,00 \$ 1,500,00	0 \$		\$ \$ \$ \$	500,000	\$ \$ \$	1,000,000
70 - General Office/Administration       GO Building Improvements         GO Building Improvements       For a constraint of the second s	\$ 500,00 \$ 1,500,00	0 \$		\$ \$ \$ \$	500,000	\$ \$ \$	1,000,000
GO Building Improvements       6         76 - Environment       7         Runway 12R-30L Glycol Force Main Environmental Improvements       7         Storm Sewer Rehabilitation       7         T2 Remote Ramp Lot/Drainage Improvements       7         Ground Service Equipment Electrical Charging Stations       7         Lift Stations at Pond 1 and 2       7         MSP Maintenance/Facility Upgrades Subtotal       7	\$ 1,500,00	0\$	5 1,800,000	\$ \$	1,400,000	\$ \$	1,400,00
76 - Environment       Runway 12R-30L Glycol Force Main Environmental Improvements         Storm Sewer Rehabilitation       T2 Remote Ramp Lot/Drainage Improvements         Ground Service Equipment Electrical Charging Stations       Lift Stations at Pond 1 and 2         MSP Maintenance/Facility Upgrades Subtotal       MSP Ongoing Maintenance Programs	\$ 1,500,00		5 1,800,000	\$ \$		\$	1,400,00
Storm Sewer Rehabilitation       T2 Remote Ramp Lot/Drainage Improvements         Ground Service Equipment Electrical Charging Stations       Electrical Charging Stations         Lift Stations at Pond 1 and 2       MSP Maintenance/Facility Upgrades Subtotal         MSP Ongoing Maintenance Programs       MSP Organs			1,800,000	\$		\$	
Storm Sewer Rehabilitation       T2 Remote Ramp Lot/Drainage Improvements         Ground Service Equipment Electrical Charging Stations       Electrical Charging Stations         Lift Stations at Pond 1 and 2       MSP Maintenance/Facility Upgrades Subtotal         MSP Ongoing Maintenance Programs       MSP Organs			1,800,000		2,000,000	\$	
Ground Service Equipment Electrical Charging Stations Lift Stations at Pond 1 and 2 MSP Maintenance/Facility Upgrades Subtotal MSP Ongoing Maintenance Programs	\$ 20,755,00				2,000,000		3,300,00
Lift Stations at Pond 1 and 2 MSP Maintenance/Facility Upgrades Subtotal MSP Ongoing Maintenance Programs	\$ 20,755,0					\$	2,000,00
MSP Maintenance/Facility Upgrades Subtotal MSP Ongoing Maintenance Programs	\$ 20,755,00				5,700,000	\$	5,700,00
MSP Ongoing Maintenance Programs	\$ 20,755,00			\$	800,000	\$	800,00
MSP Ongoing Maintenance Programs	÷ =0)/00)0	0   \$	23,570,000	Ś	162,972,500	\$	207,297,50
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	\$ 1,500,00				9,000,000	\$ ¢	12,000,00
	\$ 1,000,00	υş	1,500,000		9,000,000	\$ ¢	11,500,00
Electrical Substation Replacement	\$ 2,400,00	n ć	2 400 000	\$	5,600,000	\$ ¢	5,600,00
	\$ 2,400,00				12,300,000	\$ ¢	17,100,00
Air Handling Unit Replacement		\$		· ·	14,500,000	\$ ¢	17,000,00
Conveyance System Upgrades	ć 500.00	\$ 0\$			6,000,000	\$	9,000,00
	\$ 500,00			- · ·	3,000,000	\$ ¢	4,000,00
	\$    2,000,00 \$    4,000,00				13,000,000	\$ \$	17,000,00
					23,000,000		31,000,00
	\$ 500,00	0 \$	500,000	Ş	2,500,000	Ş	3,500,00
13 - Energy Management Center	÷ 500.00	0 ¢	1 500 000	ć	4 200 000	ć	C 200 00
EMC Plant Upgrades (T1 & T2) 21 - Field and Runways	\$ 500,00	0\$	1,500,000	\$	4,300,000	\$	6,300,00
,		_		ć	0.000.000	ć	0 000 00
Airside Bituminous Rehabilitation/Electrical Construction	ć (50.0)	0 6	CE0 000	\$	9,900,000	\$	9,900,00
	\$ 650,00				3,250,000	\$ ¢	4,550,00
Miscellaneous Airfield Construction		\$	800,000	\$	1,900,000	\$	2,700,00
26 - Terminal Roads/Landside	÷ 100.0	0 6	100.000	ć	500.000	ć	700.00
	\$ 100,00	0\$	100,000	\$	500,000	\$	700,00
31 - Parking	6 3 F 00 0	0 0	2 500 000	ć	14 500 000	ć	10 500 00
	\$ 2,500,00	0\$	2,500,000	\$	14,500,000	\$	19,500,00
39 - Public Areas/Roads	ė 400 0	<u> </u>	400.000	<i>~</i>	2 400 000	~	2 200 00
	\$ 400,00		400,000		2,400,000	\$	3,200,00
	\$ 150,00	U		\$	600,000	\$	750,00
46 - Hangars & Other Buildings				4	E 000		c
	\$ 500,00	0\$	500,000		5,000,000	\$	6,000,00
Campus Building Rehab Program		_		\$	6,500,000	\$	6,500,00
Campus Parking Lot Reconstructions				\$	1,300,000	\$	1,300,00
Campus Building Demolition MSP Ongoing Maintenance Subtotal		\$ 0 \$	,		575,000 148,625,000	\$	775,00 189,875,00

Capital Improvement Projects				Year				Total
Projects		2018		2019		2020-2024		
MSP Noise Mitigation Projects								
76 - Environment								
Noise Mitigation Consent Decree Amendment	\$	6,500,000	\$	11,500,000	\$	17,100,000	\$	35,100,000
MSP Noise Mitigation Subtotal	\$	6,500,000	\$	11,500,000	\$	17,100,000	\$	35,100,000
MSP Tenant Projects								
10 - Terminal 1 Lindbergh	_				-			
Concession Rebids	\$	4,500,000	\$	3,200,000			\$	7,700,000
Main Mall Food Court Expansion		4,500,000	ڔ	3,200,000			\$	14,500,000
Post Office Parking Ramp Upgrades	\$	500,000					\$	500,000
Concession Upgrades/Revenue Development	\$	200,000	\$	200,000	\$	1,000,000	\$	1,400,000
Delta Gatehold Seating	\$	3,000,000	\$	3,000,000	\$	3,000,000	\$	9,000,000
46 - Hangars & Other Buildings	Ļ	3,000,000	Ļ	3,000,000	Ļ	3,000,000	Ļ	5,000,000
Freight Building for DHL	\$	7,000,000					\$	7,000,000
Consolidated Loading Dock Facility		10,000,000					\$	10,000,000
MSP Tenant Subtotal		39,700,000	\$	6 400 000	\$	4 000 000	\$	50,100,000
	Ş	39,700,000	Ş	6,400,000	Ş	4,000,000	Ş	50,100,000
Reliever Airports Long Term Comprehensive Plan Projects	_							
81 - St. Paul								
Long Term Comp Plan	\$	100,000					\$	100,000
82 - Lake Elmo	_							
Long Term Comp Plan	_				\$	100,000	\$	100,000
Runway 14-32 Replacement	_		\$	3,000,000	\$		\$	7,000,000
Airfield Modifications	_				\$	3,000,000	\$	3,000,000
83 - Airlake	_							
Long Term Comp Plan	_				\$	100,000	\$	100,000
Runway 20-30 Improvements	_				\$	3,500,000	\$	3,500,000
South Building Area Development - Phase 1	_		\$	1,500,000			\$	1,500,000
84 - Flying Cloud								
Long Term Comp Plan	\$	100,000					\$	100,000
85 - Crystal	_							
Long Term Comp Plan	_				\$	100,000	\$	100,000
Runway 14R-32L & Taxiway E Modifications	_		\$	3,800,000			\$	3,800,000
86 - Anoka County - Blaine								
Long Term Comp Plan	\$	100,000					\$	100,000
Building Area Development - Xylite Street Relocation					\$	1,000,000	\$	1,000,000
Reliever Airports Long Term Comprehensive Plan Subtotal	\$	300,000	\$	8,300,000	\$	11,800,000	\$	20,400,000
Reliever Airports Maintenance/Facility Upgrade Projects								
81 - St. Paul								
Joint and Crack Repairs	\$	100,000			\$	300,000	\$	400,000
MAC Building Improvements			\$	2,100,000	\$	1,400,000	\$	3,500,000
Runway 13-31 Pavement Reconstruction					\$	5,000,000	\$	5,000,000
Storm Sewer Improvements - Phase 2			\$	1,500,000			\$	1,500,000
Maintenance Building Improvements	\$	200,000					\$	200,000
Cold Equipment Storage Building					\$	750,000	\$	750,000
LED Edge Lighting Upgrades					\$	2,500,000	\$	2,500,000
Runway 14-32 Reconstruction					\$	5,000,000	\$	5,000,000
Airport Perimeter Roads	\$	400,000			\$	900,000	\$	1,300,000
Obstructions Removal	\$	250,000					\$	250,000
Taxiway B Rehabilitiation					\$	800,000	\$	800,000

Capital Improvement Projects		Total		
Projects	2018	2019	2020-2024	
Reliever Airports Maintenance/Facility Upgrade Projects-	Continued			
82 - Lake Elmo				
Parallel Taxiways Reconstruction		\$ 600,000	\$ 600,000	\$ 1,200,000
Runway 4-22 Pavement Rehabilitation		. ,	\$ 4,000,000	\$ 4,000,000
Alleyways - South Building Area Pavement Rehab		\$ 900,000		\$ 900,000
MAC Building Improvements		\$ 400,000		\$ 400,000
Materials Storage Building	\$ 200,000			\$ 200,000
North Building Area Pavement Rehabilitation			\$ 900,000	\$ 900,000
83 - Airlake				
Runway 12-30 Reconstruction			\$ 3,500,000	\$ 3,500,000
Joint and Crack Repairs			\$ 150,000	\$ 150,000
MAC Building Improvements		\$ 400,000		\$ 400,000
Public Restroom Facility		\$ 300,000		\$ 300,000
Plane Wash Pad		\$ 150,000		\$ 150,000
Materials Storage Building	\$ 200,000			\$ 200,000
LED Edge Lighting			\$ 700,000	\$ 700,000
84 - Flying Cloud				
Taxiway D Pavement Rehabilitation		\$ 600,000		\$ 600,000
Taxiway E Pavement Rehabilitation		\$ 600,000		\$ 600,000
Taxiways A1, A3, F Pavement Rehabilitation			\$ 300,000	\$ 300,000
MAC Building Improvements			\$ 520,000	\$ 520,000
Roof Repairs/Replacements	\$ 100,000			\$ 100,000
Runway 10R-28L Modifications	\$ 2,000,000			\$ 2,000,000
85 - Crystal				
Alleyway Pavement Rehabilitation	\$ 550,000		\$ 550,000	\$ 1,100,000
Taxiway Pavement Rehabilitation		\$ 700,000		\$ 700,000
MAC Building Improvements			\$ 1,000,000	\$ 1,000,000
LED Edge Lighting Upgrades			\$ 800,000	\$ 800,000
86 - Anoka County - Blaine				
Taxiway Pavement Rehabilitation	\$ 600,000			\$ 600,000
Alleyway Pavement Rehabilitation		\$ 750,000	\$ 1,500,000	\$ 2,250,000
South Service Road & East Landside Road Pavement Reconstruction		\$ 1,000,000		\$ 1,000,000
Obstruction Removal		\$ 100,000		\$ 100,000
Air Traffic Control Tower Equipment Upgrades			\$ 100,000	\$ 100,000
MAC Building Improvements	\$ 700,000		\$ 700,000	\$ 1,400,000
LED Edge Lighting Upgrades			\$ 2,500,000	\$ 2,500,000
West Perimeter Road			\$ 700,000	\$ 700,000
Electrical Vault Improvements			\$ 750,000	\$ 750,000
Reliever Airports Maintenance/Facility Upgrade Subtotal	\$ 5,300,000	\$ 10,100,000	\$ 35,920,000	\$ 51,320,000
MSP Subtotal	\$ 223,105,000	\$ 207,820,000	\$ 625,847,500	\$ 1,056,772,500
Reliever Subtotal	\$ 5,600,000	\$ 18,400,000	\$ 47,720,000	\$ 71,720,000
Total	\$ 228,705,000	\$ 226,220,000	\$ 673,567,500	\$ 1,128,492,500

#### 2018 Capital Improvement Projects

As stated above, these are projects that have been reasonably defined for implementation in the upcoming calendar year, in this case 2018. <u>The vast majority of capital projects in the CIP are considered routine</u> projects for a major airport and do not affect the annual operating budget. Any project with a 2018 operating budget impact will be disclosed in the 2018 narratives section. The operating expenses affected by these improvements include labor, operating services, maintenance, utilities, janitorial services, and debt service costs. A description of 2018 capital improvement projects, along with a table with their funding sources, is shown on the following pages.

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#### 2018 Capital Improvement Program Narratives

#### **MSP End of Life/Replacement Projects**

#### 10 – Terminal 1- Lindbergh

#### Passenger Boarding Bridge Replacements

This project provides for the replacement of jet bridges at Terminal 1-Lindbergh. Bridges to be replaced have been determined based on a condition assessment and input from the airlines. Aircraft parking positions will be optimized at the impacted gates and fuel pits adjusted as necessary. Podiums and door openings may also be adjusted to optimize the gate hold area. It is assumed fixed walkways may need to be replaced or added to meet ADA slope requirements. All gate hold areas will be upgraded with security doors, card readers, and cameras.

#### **T1 Tram Systems Retrofit and Equipment**

The MAC Hub and Concourse Tram systems were originally placed into public service in 2001 and 2004, respectively. As part of the installation, the automatic train control system utilized multiple components provided by GE Intelligent Platforms. In late 2011, GE indicated it would discontinue support of selected components prior to the year 2020. This program will replace and upgrade the radio communication system and GE components to Tram Control Systems on both the Hub and Concourse Trams over the course of a five-year program from 2015 to 2019.

#### Mezzanine HVAC/AHU Replacements & Penthouses

The existing Heating/Ventilation/Air Conditioning (HVAC) and Air Handling Unit (AHU) equipment in the East and Center Mezzanine mechanical rooms have reached end of life and are overdue for replacement. In order to provide new equipment, increase energy efficiency, and meet the goals of the Operational Improvements program, this project will replace the equipment in relocated penthouses to be constructed on the north end of the Terminal 1-Lindbergh center mezzanine. Energy cost savings are expected.

\$10,000,000

\$250.000

#### 21 – Field and Runway

**Taxiway S Reconstruction** 

This project provides for reconstruction of a 2,600-foot length of Taxiway S between Taxiway D and the Delta Airlines Building C. The existing concrete pavement was constructed in 1967. Major items of work include pavement removals, excavation and backfill, concrete taxiway pavement, bituminous shoulder pavement, airfield lighting, and signage.

#### Snow Melter Upgrades/Modifications

This project is the first of a two-year program that provides for the evaluation, maintenance, miscellaneous modifications, and replacement of existing airfield snow melters located around the MSP campus.

#### 26 - Terminal Roads/Landside

#### 34<sup>th</sup> Avenue Traffic Control

The MAC is responsible for the maintenance on 34<sup>th</sup> Avenue north of Interstate 494. This project will replace the end-of-life traffic signals along the roadway. The City of Bloomington will complete the work with the MAC reimbursing for the cost related to MAC-owned traffic signals.

#### 66 – Fire

#### MSP Campus Fire Alarm System Upgrade/Transition

In an effort to improve monitoring reliability and eliminate the existing single point of failure configuration, this multi-year Fire Alarm System Transition (FAST) project will include database redundant systems, device controller upgrades, and the decentralization of the fire alarm master control equipment.

#### <u>ARFF #2</u>

This project covers fees for conceptual design of a building to replace Aircraft Rescue and Fire Fighting station number two. Many systems within the building cannot be upgraded and, structurally, the building needs to be replaced.

Taxiway Reconstruction

#### \$1,500,000 and 2004

\$17,000,000

\$4.000.000

#### \$250,000

\$2,500,000

\$250,000

#### 2018 Budget Construction Fund



## **MSP IT Projects**

#### 10 - Terminal 1- Lindbergh

#### **IT Miscellaneous Modifications**

Each year, there are a number of IT projects that are beyond the resources of the MAC's staff and operating budget to accomplish. These projects are prioritized and completed either as a series of contracts or as purchase orders. Work during 2018 may include MACNet maintenance and upgrades, wireless system enhancements, and MAC public address system maintenance and upgrades. The list of potential projects will be compiled and prioritized in early 2018.

#### **Telecommunications Room Equipment Continuity (TREC)**

The MAC network (MACNet) carries, along with other information, credit card data collected from the landside parking revenue control system. Merchants like the MAC are required to meet credit card security standards created to protect card holder data. Among these requirements are security standards for the physical locations where MACNet equipment is located. Additionally, the network equipment itself must have added security features to prevent unauthorized network access. This multi-year program addresses these standards by providing security equipment and relevant network hardware for the 150 telecommunications rooms on the MAC campus. Estimated 2018 impact on expenses are \$20,000 for debt service costs.

#### Intelligent Monitoring and Control Systems (IMACS)

This is a continuation of a multi-year program to upgrade all MAC building automation systems to an open architecture protocol so that the MAC can bid maintenance and construction contracts more competitively. This project will replace sole-source controllers such as Siemens and Legacy Honeywell with controllers from Honeywell, Circon, Distech, and TAC systems that are LonMark certified products.

#### **EVIDSs/MUFIDs Digital Signs**

This project is a continuation of the 2017 project for Electronic Visual Information Display systems (EVIDs) and Multi-User Flight Information Display systems (MUFIDs). It will include enhancements to new wait time digital signs, new and replacement digital toppers, and digital food courts signs, directories, and brochure holders.

#### 63 – Police **iViSN Program**

This project is the continuation of the program to systematically replace and integrate existing cameras into the Integrated Video and Information System Network (iViSN) system and to expand the camera coverage within the terminals.

#### **MSP Long Term Comprehensive Plan Projects**

#### 10 – Terminal 1- Lindbergh



**Baggage Handling System** 

#### **Baggage Handling System**

\$37,900,000 This project includes Baggage Handling System (BHS) work associated with the south half of Terminal 1-Lindbergh related to several phases of operational improvements between the baggage claim and ticket lobby levels. Improvements to the inbound BHS include new baggage claim devices and conveyors. The outbound BHS improvements include selfservice bag drop devices, related conveyors, oversize bag screening, and tub returns. Impact on future operating expenses is yet to be determined.

#### South Security Exit and Façade Expansion

This project, which is part of the Operational Improvements Program, will replace the existing curtain wall system with a new system to match the north end of the building, including additional queue area for the South Security Checkpoint. It includes a relocation of the existing security exit at the south end of the main mall to a new location on Concourse G. The project also includes unstaffed exit technologies, elevators, and escalators associated with the new exit location. Impact on future operating expenses is yet to be determined.

#### \$800.000

\$1.500.000

#### \$3,700,000

# \$4,600,000

\$46.300.000



\$1,000,000

#### East Curbside Check-in

#### \$4.900.000

\$3,000,000

This project will provide additional baggage handling conveyors and bag drop devices for check-complete during Operational Improvements construction. Impact on future operating expenses is yet to be determined.

Automated Security Lanes (ASLs)

This second phase of a four-year program will provide funding for procurement and installation of TSA-approved Automated Security Lanes at the North Security Checkpoint to enhance throughput by 20-40% per lane. The replacement conveyor equipment provides bin returns to the divesture area managed by TSA staff, suspect bin isolation for searches, analytics for improved reporting and

monitoring. Additional work required to support the installation will

equipment and for equipment network requirements.



Automated Security Lanes

#### MSP Maintenance/Facility Upgrade Projects

#### 10 – Terminal 1- Lindbergh

#### **Restroom Upgrade Program**

A study of all restrooms in Terminal 1-Lindbergh was completed in 2010 and a program developed to upgrade/modernize the restrooms at Terminal 1-Lindbergh. From this study, each restroom was prioritized based on its condition. This program will provide for the phased modernization of the T1-Lindbergh restrooms to include upgraded finishes, lighting, air quality, energy saving upgrades, and ADA compliance. This year's project will construct the second of two new restrooms on Concourse F, which was delayed to better coincide with the Concessions Rebid Program. Costs include an addition to the building to provide adequate space for the required number of fixtures and associated leasable space below. Estimated 2018 impact on expenses is \$85,000 for additional utility and maintenance costs and labor.

#### Way-Finding Sign Backlighting Replacement

LED lighting will replace the existing cold-cathode lamps in the lighted sign boxes at both terminals. Many lamps from the 2008 retrofit have failed and the long-term energy costs recovery from the LEDs fits into the MAC's energy reduction model.

#### **Concourse G Moving Walks**

This is the first project of a multi-year program to replace the near end-of-life moving walks on the G Concourse. This year's project will replace the western moving walk, nearest the main mall. The walk will also be shortened to accommodate the South Security Exit project as part of the Operational Improvements Program. Estimated 2018 expense impact is \$28,000 for maintenance and janitorial services.

#### Art Display Areas

This program is a continuation of the existing program, in partnership with the Airport Foundation MSP. It provides opportunities and space build out for the display of permanent and temporary/rotating art exhibits. This year's project will provide music cabinets, IT upgrades to concourse art cases, and additional art exhibit space at Terminal 2-Humphrey near Gates H1-H5.

#### Arts Master Plan

\$250.000

\$305,000 This program supports procurement of commissioned art and rotating exhibits as part of the Percent for Arts Program master plan. Estimated 2018 expense impact is \$305,000 for professional services.



Mural in New Restroom

#### \$250.000

#### **Employee Breakroom**

This project will provide a second MSP employee break room that will have a quiet area for employees who work multiple shifts on the campus to eat, read, etc. By providing this guality work support area, front line and other employees will be able to rest and eat out of view of the public. Estimated 2018 expense impact is \$6,000 for janitorial services.

#### \$1,600,000

\$8.600.000

\$5.000.000

#### 99

#### 13 – Energy Management Center

#### **Energy Savings Program**

This project will focus on improving the energy efficiency of mechanical and electrical systems in the G Concourse. Energy cost savings are expected.

#### 63 – Police

#### Safety and Operations Center

This project covers fees for conceptual design of a new operations center for Airport Police staff. The project will consolidate more than a dozen areas across the campus currently occupied by APD staff and/or storage, and will significantly improve emergency response capabilities by housing critical equipment and staff in a location outside the terminal buildings. The building is scheduled for contract award in 2020.

#### 66 – Fire

#### **Campus Fire Protection**

This project is part of a new multi-year program to upgrade fire protection systems in various MAC-owned buildings on the MSP campus.

#### 70 – General Office/Administration General Office Building Improvements

Continual maintenance of MAC buildings is necessary for comfort and safety as well as sustainability of the MAC asset. Age and weather contribute to building deterioration, mold, and other health issues. The General Office Building, built in the 1960s, has recently experienced a number of window and building issues that need to be corrected, including window sealing and replacements, curtain wall sealing, and roof repairs.

#### 76 – Environment

#### **Storm Sewer Rehabilitation**

This is the first of a two-year program that supports and complies with the 2017 MAC/MPCA Memorandum of Understanding concerning the MSP Glycol Collection Program. This project provides for cleaning, inspection, and rehabilitation of storm sewers and glycol sewers at various locations where aircraft deicing occurs, which enhances collection and storage of glycol-impacted storm water resulting from deicing operations.

#### **MSP Ongoing Maintenance Projects**

#### 10 – Terminal 1- Lindbergh

#### Electrical Infrastructure Program

There are 53 electrical substations that serve the Terminal 1-Lindbergh complex. It is imperative that these substations be inspected, cleaned, and upgraded in order to ensure their continued performance. This is a continuation of a multi-year program that began in 2009.

#### **Emergency Power Upgrades**

A study and survey of Terminal 1-Lindbergh transfer switches and emergency lighting was completed in 2008. The 2018 project is part of a multi-year program that will continue the design and implementation of emergency power and lighting corrective work identified in this study.

#### **Terminal Miscellaneous Modifications**

Terminal Miscellaneous Modifications are a list of maintenance projects that are beyond the resources of MAC's maintenance and trades staff to accomplish. These projects are prioritized and completed either as a series of contracts or as purchase orders. Typical work includes door replacements, emergency upgrades to mechanical, electrical, plumbing or HVAC systems, loading dock work, and similar projects. The list of potential projects will be compiled and prioritized in early 2018. Estimated 2018 expense impact is \$48,000 for debt service, maintenance costs and utilities.

## \$500,000

\$500,000

\$1.500.000

#### \$1,500,000

#### \$1,000,000

\$2,400,000

# **\$2,000,000** ems in the

\$250,000



#### Plumbing Infrastructure Upgrades

In 2010, MAC staff prepared a preliminary study of the reliability and maintainability of the existing plumbing infrastructure. Portions of the existing plumbing infrastructure serving Terminal 1-Lindbergh are over 40 years old, have systems that are undersized for today's demands, contain isolation valves that are either inaccessible or no longer functional, and utilize aging water meter systems. There are also deteriorated sections of the existing sanitary and storm water systems. This ongoing program was implemented in 2012 to upgrade the plumbing infrastructure system to

meet current code requirements and MAC standards. The focus of the 2018 project is to continue the replacement of aging plumbing systems.

#### **Terminal Building Remediation**

Continual maintenance of the terminal buildings is imperative to passenger comfort and safety as well as sustainability of the MAC asset. Age and weather contribute to building deterioration, mold, and other health issues. The remediation will address building and concourse envelope issues, including curtain wall systems, glazing, sealant repair/replacement, louver repair/replacement, metal panel repair/replacement, soffit repair or replacement, and soffit insulation systems. Estimated 2018 expense impact is \$40,000 for debt service costs.

#### **Concourse G Rehabilitation**

This multi-year program will provide operational improvements to the existing concourse over time, including replacing elevators and modifying and replacing structural, electrical, and mechanical systems.

#### Baggage System Upgrades

This multi-year program will provide necessary upgrades to the Terminal 1-Lindbergh inbound and outbound baggage system. These upgrades are not covered by general system maintenance.



#### 13 – Energy Management Center

#### EMC Plant Upgrades (Terminal 1 and Terminal 2) This six-year program provides upgrades to the MAC's

This six-year program provides upgrades to the MAC's Energy Management Center (EMC) Boiler and Chiller Plants at both Terminal 1-Lindbergh and Terminal 2-Humphrey. The work includes upgrades to the aging Chilled Water and Heating Water systems throughout both terminals. The pumping and piping systems on both the heating and cooling systems are aging and in need of repair work beyond regular maintenance.

EMC Equipment

# 21 – Field and Runway

## Pavement Joint Sealing/Repair

This is an ongoing program to provide for the resealing of joints, sealing of cracks, and limited surface repairs on existing concrete pavements. The areas scheduled for sealing will be as defined in the overall joint sealing program or as identified by staff inspection in the early spring of each year.

#### 26 – Terminal Roads/Landside Tunnel/Bridge Rehabilitation

The MSP Campus has MAC-owned bridges and tunnels. Bridge and tunnel inspections are conducted each year to identify maintenance and repairs which are then implemented in a timely fashion.

#### 31 – Parking

**Terminal 1 and Terminal 2 Parking Structure Rehabilitation \$2,500,000** This is an annual program to maintain the integrity of the airport's multi-level parking structures. Projects typically include concrete repair, joint sealant replacement, expansion joint repairs, concrete sealing, and lighting improvements. All information is subject to change.



Terminal 2 Parking Ramp

#### \$500,000

\$2.000.000

\$4.000.000

\$500.000

\$500.000

\$650,000

\$100.000

#### Construction Fund

2018 Budaet

\$400.000

#### 39 – Public Areas/Roads

#### Landside Pavement Rehabilitation

This is an ongoing program to construct or reconstruct bituminous pavements outside of the Air Operations Area (AOA). Inspection of pavements and appurtenances determines what areas are to be prioritized for rehabilitation under each year's project.

#### **Roadway Fixture Refurbishment**

Many of the light poles, clearance restriction boards, sign units, fence sections, and canopies on the airport roadways are in need of repainting and maintenance. This project provides for refurbishment of these fixtures.

#### 46 – Hangars and Other Buildings

#### **MSP Campus Building Roof Replacements**

A report has been developed within the MAC that evaluates one-half of the roofs every other year. This on-going program allows these roofs that have been evaluated to be prioritized and programmed for repair. This program will also provide dollars for emergency repairs, which may also be needed on some roofs.

Roof Replacement Work

#### **MSP Noise Mitigation Projects**

#### **Noise Mitigation Consent Decree Amendment**

This project will provide noise mitigation for those single-family and multi-family homes meeting the eligibility requirements of the program. This is the second year of the First Amendment program. Estimated 2018 expense impact is approximately \$130,000 for debt service costs.

#### **MSP Tenant Projects**

#### 10 – Terminal 1- Lindbergh

#### **Concessions Rebids**

This program provides support for required infrastructure to be brought to leaselines, shell-space for new buildouts, and for other major changes required to implement the concessions rebid programs at Terminal 1-Lindbergh.

#### **Main Mall Food Court Expansion**

This project provides a one-and-a-half story expansion over the existing rooftop space west of the food court, and an expansion north above the existing loading dock. The expansion will provide shell space for an additional concept, two expanded concept spaces, and a remodeled layout of the food court to be implemented through the 2017 Concessions Rebid Program.

#### Post Office Parking Ramp Upgrades

This project includes modifications to the existing Post Office parking ramp so that the MSP Intercontinental Hotel can lease it for valet and customer self-park options. Work will include improvements to the existing elevator, doors, stairways, finishes, and signage.

#### **Concessions Upgrades/Revenue Development**

This is an annual program to fund miscellaneous upgrades such as finishes, furniture, signage, and/or modified connections to utilities for the concession programs or other revenue generating programs at MSP.

#### **Delta Gatehold Seating**

This project is the first of a three-year program to replace seating in Delta's leased gatehold areas. This first year will focus on Concourse F seating. The MAC will fund the initial purchase of the seats with Delta reimbursing the MAC over time. Estimated 2018 expense impact is \$60,000 for maintenance and debt service costs.

#### 46 - Hangars and Other Buildings Freight Building Remodel for DHL

This project includes remodel and expansion of the DHL air freight facility located on Cargo Road to accommodate a package processing facility. The air freight facility sits adjacent to the West Cargo Ramp where DHL currently has airside access for their daily aircraft arrivals. The cost of remodel and expansion will be paid through a lease agreement with DHL. Estimated 2018 expense impact is \$140,000 for debt service costs which will be reimbursed through user fees.

#### \$14,500,000

## \$200,000

#### \$3.000.000

#### \$7,000,000





\$6.500.000

# \$4.500.000

\$150,000

# \$500,000

\$500.000

through a lease agreement with DHL. Estimated 2018 expense impact is \$140,000 for debt service costs which will be reimbursed through user fees.

#### **Consolidated Loading Dock Facility**

As the concessions program and its food choices continue to expand, the existing Concourse C loading dock space is being stressed beyond capacity. This new facility will house centralized receiving operations with security screening capability and distribution to buildings throughout the MSP campus. The existing loading dock will remain as a significant delivery node. Estimated 2018 expense impact is \$200,000 for debt service costs which will be reimbursed through user fees.

#### **Reliever Airports Long Term Comprehensive Plan Projects**

#### 81 – St. Paul

#### Long Term Comp Plan

This project will focus on an update to the St. Paul LTCP. Estimated 2018 expense impact is \$100,000 for professional services.

#### 84 – Flying Cloud

#### Long Term Comp Plan

This project will focus on an update to the Flying Cloud LTCP. Estimated 2018 expense impact is \$100,000 for professional services.

#### 86 – Anoka County - Blaine

#### Long Term Comp Plan

This project will focus on an update to the Anoka County-Blaine LTCP. Estimated 2018 expense impact is \$100,000 for professional services.

#### **Reliever Airports Maintenance/Facility Upgrade Projects**

#### 81 - St. Paul

#### Joint and Crack Repairs

Given the extremely poor subgrade materials at this airport, the need for crack repair and joint sealing is critical to maintain pavement strength and pavement life. An inspection of the pavement will be completed to determine the area most in need of repair.

#### Maintenance Building Improvements

This project provides for facility maintenance to ensure continued efficient operation of MAC buildings, specifically the main airport maintenance building.

#### Airport Perimeter Roads

This project is part of an ongoing effort to rehabilitate airport pavements through bituminous overlays, seal coats, or reconstruction to restore the surfaces to a smooth, even condition and improve overall operating conditions. This project includes the rehabilitation of the airport perimeter road near the intersection of Bayfield Street and Airport Road.

#### **Obstructions Removal**

This project will address identification and removal of obstructions to the runway approach surfaces. Estimated 2018 expense impact is \$250,000 for maintenance.

#### 82 – Lake Elmo

#### Materials Storage Building

This project includes the construction of a MAC storage building for the containment of airfield maintenance products such as salt, sand, and topsoil to comply with MPCA requirements.

#### 83 – Airlake

#### Materials Storage Building

This project includes the construction of a MAC storage building for the containment of airfield maintenance products such as salt, sand, and topsoil to comply with MPCA requirements.

#### \$ 100,000

#### \$200,000

\$400,000

#### \$250,000

# \$200,000

\$200,000

#### 2018 Budget Construction Fund

\$10.000.000

\$100,000

\$100.000

\$100,000

#### 84 – Flying Cloud Roof Repairs/Replacement

This project provides for repair or replacement of the roof structures on MAC-owned buildings. This project accounts for identification of the exact type of roof deficiencies as well as completion of the most cost-effective repairs or replacements.

#### Runway 10L-28R Modifications

This project has been identified in cooperation with the FAA as a Runway Incursion Mitigation (RIM) project. The scope includes designating Runway 10L-28R as utility runway, which involves relocating the existing hold signs, hold markings, and runway guard lights. This project will also include reconstruction of the runway pavement with the reclaim and overlay of Runway 10L-28R. New Runway End Identifier Lights (REILs) are also included.

#### 85 – Crystal

#### Alleyways Pavement Rehabilitation

This is an ongoing program to rehabilitate aircraft operational areas, including runways, taxiways, and aprons, through bituminous overlays, seal coats, or reconstruction to restore the surfaces to a smooth, even condition and improve overall operating conditions. This project includes the full-depth rehabilitation of alleyways in the North Building Area.

#### 86 – Anoka County - Blaine

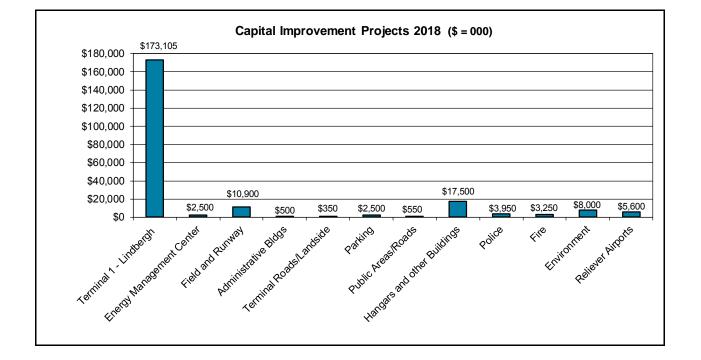
#### **Taxiway Pavement Reconstruction**

This is an ongoing program to reconstruct aircraft operational areas, including runways, taxiways, and aprons, through bituminous overlays, seal coats, or reconstruction to restore the surfaces to a smooth, even condition and improve overall operating conditions. This project includes the full-depth rehabilitation of Taxiway Foxtrot.

#### MAC Building Improvements

This is an ongoing program to provide for facility modifications to ensure continued efficient operation of MAC buildings. This year's project includes improvements to the MAC Maintenance Building, Air Traffic Control Tower Building, restroom buildings, and other MAC-owned hangars.

The following chart summarizes the 2018 capital improvement projects by various areas of the airport. Terminal 1-Lindbergh will gain the most improvements this year.



# \$100.000

2018 Budget Construction Fund

#### \$2,000,000

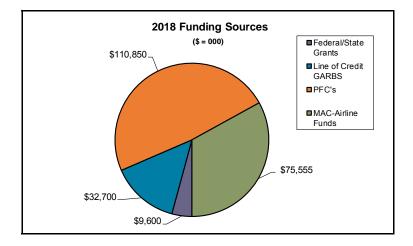
\$550,000

#### \$700,000

\$600.000

#### 2018 Capital Improvement Project Funding Sources

The following pie chart indicates the funding sources for 2018. The largest contributor to the project funding is PFCs received from passengers.





Skyway from Hotel to MSP Terminal 1 Built in 2017 for New Hotel Opening in 2018

The following tables show the funding sources for the 2018 capital improvement projects. A cash flow summary of the CIP will appear later in this section.

		2018			Federal-State	Line of	MAC-Airline		Tota
	Fu	nding		PFC 15	Grants	Credit	Funds		Cos
MSP End of Life/Replacement Projects									
10 - Terminal 1 Lindbergh								-	
Passenger Boarding Bridge Replacements	\$ 4,000	0.000	Ś	3.000.000	\$ 1,000,000			Ś	4,000,000
Tram Systems Retrofit and Equipment	\$ 1,500		Ŧ	-,,	+ _,,		\$ 1,500,000		
Mezzanine HVAC/AHU Replacements & Penthouses	\$ 17,000						\$17,000,000		
21 - Field and Runways	7	-,					+,,	-	
Taxiway S Reconstruction	\$ 10,000	0.000	Ś	4.000.000	\$ 6,000,000			Ś	10,000,000
Snow Melter Upgrades/Modifications		0,000	Ŧ	.,,	+ -,,		\$ 250,000	\$	250,000
26 - Terminal Roads/Landside	,	-,					+	-	
34th Avenue Traffic Control	\$ 250	0,000					\$ 250,000	Ś	250,000
66 - Fire	ý 200	0,000					¢ 250,000	Ţ	200,000
MSP Campus Fire Alarm System Upgrade/Transition	\$ 2,500	0.000					\$ 2,500,000	Ś	2,500,000
ARFF #2		0,000					\$ 250,000		250,000
MSP End of Life/Replacement Subtotal	\$ 35,750		\$	7,000,000	\$ 7,000,000	Ś -	\$21,750,000	-	35,750,000
MSP IT Projects	<i>\$</i> 33,730	0,000	Ŷ	7,000,000	<i>\$</i> 7,000,000	Ý	<i>\$21,730,000</i>	Ţ	33,730,000
•								-	
10 - Terminal 1 Lindbergh	é 4.000	0.000				¢ 4 000 000			4 000 000
Telecom Room Equipment Continuity (TREC)	\$ 1,000					\$ 1,000,000	¢ 4 500 000		1,000,000
Intelligent Monitoring and Control Systems (IMACS)	\$ 1,500							\$	1,500,000
IT Miscellaneous Modifications	\$ 4,600						\$ 4,600,000		4,600,000
EVIDS/MUFIDs Digital Signs	\$ 800	0,000					\$ 800,000	Ş	800,000
63 - Police	é 2.70	0.000	~	4 050 000			¢ 4 050 000	-	2 700 000
iVISN Program		-	\$	1,850,000			\$ 1,850,000	<u> </u>	3,700,000
MSP IT Subtotal	\$ 11,600	0,000	\$	1,850,000	\$ -	\$ 1,000,000	\$ 8,750,000	Ş	11,600,000
MSP Long Term Comprehensive Plan Projects									
10 - Terminal 1 Lindbergh									
Baggage Handling System	\$ 37,900	0,000	\$ 3	37,900,000					37,900,000
South Security Exit and Façade Expansion	\$ 46,300	0,000	\$	46,300,000				100	46,300,000
East Curbside Check in		0,000	\$	4,900,000					4,900,000
Automated Security Lanes	\$ 3,000	0,000	\$	3,000,000				\$	3,000,000
MSP Long Term Comprehensive Plan Subtotal	\$ 92,100	0,000	\$ !	92,100,000	\$-	\$-	\$-	\$	92,100,000
MSP Maintenance/Facility Upgrade Projects									
10 - Terminal 1 Lindbergh									
Restroom Upgrade Program	\$ 8,600	0,000	\$	8,600,000				\$	8,600,000
Way-Finding Sign Backlighting Replacement	\$ 1,600						\$ 1,600,000	\$	1,600,000
G Concourse Moving Walks	\$ 5,000	0,000	\$	1,300,000		\$ 1,400,000	\$ 2,300,000		
Art Display Areas		0,000					\$ 250,000		250,000
Art Master Plan	\$ 305	5,000					\$ 305,000	\$	305,000
Employee Breakroom		0,000					\$ 250,000	\$	250,000
13 - Energy Management Center							. ,	Ċ.	,
Energy Savings Program	\$ 2,000	0,000					\$ 2,000,000	\$	2,000,000
63 - Police								<u> </u>	
Safety & Operations Center	\$ 250	0,000					\$ 250,000	\$	250,000
66 - Fire								É	,
Campus Fire Protection	\$ 500	0,000					\$ 500,000	\$	500,000
70 - General Office/Administration		, -					,	ŕ	.,
GO Building Improvements	\$ 500	0,000					\$ 500,000	\$	500,000
76 - Environment		, -						ŕ	
Storm Sewer Rehabilitation	\$ 1,500	0.000					\$ 1,500,000	\$	1,500,000
MSP Maintenance/Facility Upgrades Subtotal	\$ 20,755	-	ć	9,900,000	\$ -	\$ 1,400,000		-	- · ·



Multi-User Flight Information Display (MUFID)

2018 Capital Improvement Program Funding							
	2018		Federal-State	Line of	MAC-Airline		Total
	Funding	PFC 15	Grants	Credit	Funds		Cost
MSP Ongoing Maintenance Programs							
10 - Terminal 1 Lindbergh							
Electrical Infrastructure Program	\$ 1,500,000				\$ 1,500,000		1,500,000
Terminal Miscellaneous Modifications	\$ 2,400,000			\$ 1,800,000	\$ 600,000	-	2,400,000
Emergency Power Upgrades	\$ 1,000,000				\$ 1,000,000		1,000,000
Plumbing Infrastructure Upgrade Program	\$ 500,000				\$ 500,000		500,000
Terminal Building Remediation Program	\$ 2,000,000				\$ 2,000,000		2,000,000
Concourse G Rehabilitation	\$ 4,000,000			\$ 2,000,000	\$ 2,000,000	-	4,000,000
Baggage System Upgrades	\$ 500,000				\$ 500,000	\$	500,000
13 - Energy Management Center							
EMC Plant Upgrades (T1 & T2)	\$ 500,000				\$ 500,000	\$	500,000
21 - Field and Runways							
Pavement Joint Sealing/Repair	\$ 650,000				\$ 650,000	\$	650,000
26 - Terminal Roads/Landside							
Tunnel/Bridge Rehabilitation	\$ 100,000				\$ 100,000	\$	100,000
31 - Parking							
T1/T2 Parking Structure Rehabilitation	\$ 2,500,000				\$ 2,500,000	\$	2,500,000
39 - Public Areas/Roads							
Landside Pavement Rehabilitation	\$ 400,000				\$ 400,000	\$	400,000
Roadway Fixture Refurbishment	\$ 150,000				\$ 150,000		150,000
46 - Hangars and Other Buildings	,				,		
MSP Campus Building Roof Replacements	\$ 500,000				\$ 500,000	\$	500,000
MSP Ongoing Maintenance Subtotal	\$ 16,700,000	\$ -	\$-	\$ 3,800,000	\$12,900,000	\$ 1	16,700,000
MSP Noise Mitigation Projects				<u> </u>			<u> </u>
76 - Environment							
Noise Mitigation Consent Decree Amendment	\$ 6,500,000			\$ 6,500,000		Ś	6,500,000
MSP Noise Mitigation Subtotal	\$ 6,500,000	\$ -	Ś -	\$ 6,500,000	\$-	· ·	6,500,000
MSP Tenant Projects	+ -,,	· ·	+	+ -,,	- <del>-</del>	+	-,,
10 - Terminal 1 Lindbergh							
Concession Rebids	\$ 4,500,000				\$ 4,500,000	Ś	4 500 000
Main Mall Food Court Expansion	\$ 14,500,000				\$14,500,000		
Post Office Parking Ramp Upgrades	\$ 500,000				\$ 500,000		500,000
Concession Upgrades/Revenue Development	\$ 200,000				\$ 200,000	\$	200,000
Delta Gatehold Seating	\$ 3,000,000			\$ 3,000,000	\$ 200,000		3,000,000
46 - Hangars & Other Buildings	\$ 3,000,000			\$ 3,000,000		Ŷ	3,000,000
Freight Building for DHL	\$ 7,000,000			\$ 7,000,000		\$	7,000,000
Consolidated Loading Dock Facility	\$ 10,000,000			\$ 10,000,000			1,000,000
MSP Tenant Subtotal	\$ 39,700,000	\$	\$ -	\$ 20,000,000	\$19,700,000		39,700,000
	\$ 39,700,000	Ş -	Ş -	\$20,000,000	\$ 19,700,000	Ş 3	9,700,000
Reliever Airports Long Term Comprehensive Plan Projects							
81 - St. Paul						<b>r</b> .	
Long Term Comp Plan	\$ 100,000				\$ 100,000	Ş	100,000
84 - Flying Cloud							
Long Term Comp Plan	\$ 100,000				\$ 100,000	\$	100,000
86 - Anoka County - Blaine						-	
Long Term Comp Plan	\$ 100,000				\$ 100,000		100,000
Reliever Airports Long Term Comprehensive Plan Subtotal	\$ 300,000	\$-	\$-	\$ -	\$ 300,000	\$	300,000



MSP Terminal 1-Lindbergh Exterior



Landside Pavement to be Rehabilitated

2018 Capital Improvement Program Funding							
	2018		Federal-State	Line of	MAC-Airline		Total
	Funding	PFC 15	Grants	Credit	Funds		Cost
Reliever Airports Maintenance/Facility Upgrade Projects							
81 - St. Paul							
Joint and Crack Repairs	\$ 100,000				\$ 100,000	\$	100,000
Obstruction Removal	\$ 250,000				\$ 250,000	\$	250,000
Maintenance Building Improvements	\$ 200,000				\$ 200,000	\$	200,000
Airport Perimeter Roads	\$ 400,000		\$ 275,000		\$ 125,000	\$	400,000
82 - Lake Elmo							
Materials Storage Building	\$ 200,000		\$ 125,000		\$ 75,000	\$	200,000
83 - Airlake							
Materials Storage Building	\$ 200,000				\$ 200,000	\$	200,000
84 - Flying Cloud							
Roof Repairs/Replacements	\$ 100,000				\$ 100,000	\$	100,000
Runway 10L/28R Modifications	\$ 2,000,000		\$ 1,400,000		\$ 600,000	\$	2,000,000
85 - Crystal							
Alleyway Pavement Rehabilitation	\$ 550,000		\$ 375,000		\$ 175,000	\$	550,000
86 - Anoka County - Blaine							
Taxiway Pavement Rehabilitation	\$ 600,000		\$ 425,000		\$ 175,000	\$	600,000
MAC Building Improvements	\$ 700,000				\$ 700,000	\$	700,000
Reliever Airports Maintenance/Facility Upgrade Subtotal	\$ 5,300,000	\$-	\$ 2,600,000	\$ -	\$ 2,700,000	\$	5,300,000
MSP Subtotal	\$ 223,105,000	\$ 110,850,000	\$ 7,000,000	\$32,700,000	\$72,555,000	\$ 22	23,105,000
Reliever Subtotal	\$ 5,600,000	\$ -	\$ 2,600,000	\$ -	\$ 3,000,000	\$	5,600,000
Total	\$ 228,705,000	\$ 110,850,000	\$ 9,600,000		\$75,555,000	-	28,705,000



## St. Paul-Downtown Airport



Flying Cloud Airport

# 2019 Capital Improvement Program Narratives

# **MSP End of Life/Replacement Projects**

### 10 – Terminal 1- Lindbergh

## Passenger Boarding Bridge Replacements

\$4.000.000 This project provides for the replacement of jet bridges at Terminal 1. Bridges to be replaced will be determined based on a condition assessment and input from the airlines. Aircraft parking positions will be optimized at the impacted gates and fuel pits adjusted as necessary. Podiums and door openings may also be adjusted to optimize gate hold area. It is assumed fixed walkways may need to be replaced or added to meet ADA slope requirements and all gate hold areas will be upgraded with security doors, card readers, and cameras.

Passenger Boarding Bridge

#### T1 Tram Systems Retrofit and Equipment

The MAC Hub and Concourse Tram systems were originally placed into public service in 2001 and 2004, respectively. As part of the installation, the automatic train control system utilized multiple components provided by GE Intelligent Platforms. In late 2011, GE indicated it would discontinue support of selected components prior to the year 2020. This program will replace and upgrade the radio communication system and GE components to Tram Control Systems on both the Hub and Concourse Trams over the course of a five-year program from 2015 to 2019.

#### **Terminal 1 Tug Doors Replacement**

This project will replace the 15-year-old tug doors at Terminal 1-Lindbergh as they have reached the end of their useful life.

### 21 – Field and Runway

**Snow Melter Upgrades/Modifications** 

This project is the second of a two-year program that provides for the evaluation, maintenance, miscellaneous modifications, and replacement of existing airfield snow melters located around the MSP campus.

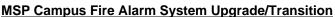
#### 26 - Terminal Roads/Landside 28<sup>th</sup> Avenue Watermain Replacement

This project provides for reconstruction of approximately 2,600 linear feet of 18-inch watermain along 28th Avenue. Major items of work include miscellaneous removals, removal and reconstruction of ductile iron watermain, valves, hydrants, aggregate base, bituminous pavement, curb, concrete walk, fencing, and restoration of turf and landscaping.

#### 36 – Terminal 2-Humphrey Public Walk Aisle Terrazzo Floor Installation

This project will remove carpet and install terrazzo in the baggage claim area and the walk aisle at Gates H1-H7 to match the terrazzo installed in the Gate Expansion that opened in 2016 as well as install terrazzo between the ticket lobby and Checkpoint 1.

#### 66 – Fire



In an effort to improve monitoring reliability and eliminate the existing single point of failure configuration, this multi-year project will include database redundant systems, device controller upgrades and the decentralization of the fire alarm master control equipment.



Snow Melter

### \$1,250,000

\$1,700,000

#### \$1.000.000



Fire Alarm System

#### 109

#### \$1,500,000

\$600,000

# \$750.000

# **MSP IT Projects**

#### 10 - Terminal 1- Lindbergh **IT Miscellaneous Modifications**



Sample DAS Antenna

# **Telecommunications Room Equipment Continuity (TREC)**

prioritized in early 2019.

\$1,500,000 The MAC network (MACNet) carries, along with other information, credit card data collected from the landside parking revenue control system. Merchants like the MAC are required to meet credit card security standards created to protect card holder data. Among these requirements are security standards for the physical locations where MACNet equipment is located. Additionally, the network equipment itself must have added security features to prevent unauthorized network access. This multi-year program addresses these standards by providing security equipment and relevant network hardware for the 150 telecommunications rooms on the MAC campus.

MAC's staff and operating budget to accomplish. These projects are prioritized and completed either as a series of contracts or as purchase orders. Work may include MACNet maintenance and upgrades. EVIDs/MUFIDs digital signs, Wireless System enhancements, and MAC Public Address System maintenance and upgrades. The list of potential projects will be compiled and

# Intelligent Monitoring and Control Systems (IMACS)

This is a continuation of a multi-year program to upgrade all MAC building automation systems to an open architecture protocol so that the MAC can bid maintenance and construction contracts more competitively. This project will replace sole-source controllers such as Siemens and Legacy Honeywell with controllers from Honeywell, Circon, Distech, and TAC systems that are LonMark certified products.

# **Card Access Modifications**

This program will add card access controls at passenger boarding bridge doors for improved security at a pace faster than only adding the controls as bridges are replaced.

# MSP Long Term Comprehensive Plan Projects

### 10 – Terminal 1- Lindbergh

**MSP Long Term Comp Plan** 

\$1,500,000 The MSP 2030 Long Term Comprehensive Plan (LTCP), previously completed in April 2010, is scheduled to be updated in 2020. While some efforts have already started with checkpoint modeling and parking analyses, the work in 2018 will continue the forecasting efforts and include preparation of the LTCP document for public review and Commission approval.

# **Baggage Claim/Ticket Lobby Operational Improvements**

This is the first of three projects in a program that will provide the level of service requirements for short- and medium-term growth of the O&D passengers, including walkways that meet required codes, public seating areas, centralized meet and greet space, unclaimed baggage storage, baggage service offices, concessions (food & beverage and retail), improved lighting, fire protection throughout the space, structural enhancements, improved sight lines, curbside lighting and access, and other operational improvements in the Arrivals Hall. In the Departures Hall, this program addresses, with the Vertical Circulation Improvements Program, issues of congestion and functionality in the Terminal 1-Lindbergh Ticket Lobby. It will provide walkways that meet required codes, ticket counter consolidations, airline ticket offices, centralized meet and greet areas, improved vestibules and access, east mezzanine removal/reduction, structural enhancements, curtain wall replacement, and other operational improvements. On both levels, the 2019 project constructs new restrooms in order to allow future phases to demolish the existing old and outdated restrooms.

#### \$8,400,000 Each year, there are a number of IT projects that are beyond the resources of the

### \$2.000.000

\$1,500,000

#### \$74,400,000

#### Armed Forces Service Center Relocation

The AFSC location is being displaced by the Operational Improvements program. This project will relocate the center to a desired location behind the security line in the terminal.

#### Automated Security Lanes (ASLs)

This third phase of a four-year project will provide funding for procurement and installation of additional TSAapproved Automated Security Lanes to enhance throughput by 20-40% per lane, without the loss of the existing quantity of lanes. The replacement conveyor equipment provides bin returns to the divesture area managed by TSA staff, suspect bin isolation for searches, analytics for improved reporting and training, and improved x-ray image display, storage, and monitoring. Additional work required to support the installation will include power and data additions for new and replacement equipment and for equipment network requirements.

#### 21 – Field and Runway

**Taxiway C1 Construction** 

Project provides for the construction of Taxiway C1 located abeam to Gates H5/H6 between Taxiway D and Taxiway M. Major items of work include excavation and backfill, concrete taxiway pavement, bituminous shoulder pavement, pavement markings, and airfield lighting and signing.

#### 31 – Parking

#### T1 Parking Ramp – Parking Ramp Modifications

This project will modify the red/blue parking levels vacated by rental car agencies when they move to the new parking ramp. This project will prepare the areas to accommodate public parking.

#### 36 – Terminal 2- Humphrey

#### T2 Automated Security Lanes (ASLs)

This first phase of a two-year project will provide funding for procurement and installation of TSA-approved Automated Security Lanes at the Terminal 2-Humphrey's Security Checkpoint No. 1 to enhance throughput by 20-40% per lane, without the loss of the existing quantity of lanes. The replacement conveyor equipment provides bin returns to the divesture area managed by TSA staff, suspect bin isolation for searches, analytics for improved reporting and training, and improved x-ray image display, storage, and monitoring. Additional work required to support the installation will include power and data additions for new and replacement equipment and for equipment network requirements.

#### MSP Maintenance/Facility Upgrade Projects

### 10 – Terminal 1- Lindbergh

#### Restroom Upgrade Program

A study of all restrooms in Terminal 1-Lindbergh was completed in 2010 and a program developed to upgrade/modernize the restrooms at Terminal 1-Lindbergh. From this study, each restroom was prioritized based on its condition. This program will provide for the phased modernization of the T1-Lindbergh restrooms to include upgraded finishes, lighting, air quality, energy saving upgrades, and ADA compliance. The 2020 project is anticipated to upgrade restrooms in the valet parking lobby, install water bottle fillers in a number of locations, and provide civilized waiting areas at some of the new restrooms blocks.

#### Way-Finding Sign Backlighting Replacement

LED lighting will replace the existing cold-cathode lamps in the lighted sign boxes at both terminals. Many lamps from the 2008 retrofit have failed and the long-term energy costs recovery from the LEDs fits into the MAC's energy reduction model.

#### Lighting Infrastructure Technology and Equipment (LITE)

This is a multi-year program that will analyze, assemble, and organize lighting system upgrade recommendations for the MSP campus. Annual investment in lighting infrastructure is necessary to ensure its safe operation, reduce energy and maintenance costs, and to implement technology upgrades to improve lighting quality. Light fixtures age and degrade due to time, heat, or exterior elements. Lighting technologies also change and upgrades will provide for more energy efficient lighting systems.

#### Art Display Areas

This program is a continuation of the existing program, in partnership with the Airport Foundation MSP, to provide opportunities and space build out for the display of permanent and temporary/rotating art exhibits. This

#### \$3,000,000

\$3.000.000

\$5.000.000

\$6,000,000

#### \$1,600,000

\$2.000.000

#### \$1,500,000

\$500.000

#### v

# \$1.100.000

2018 Budget Construction Fund year's project will support an outdoor Art Park adjacent to the Hotel for permanent and rotating exhibits with public access for travelers and hotel guests.

#### **Arts Master Plan**

This program supports procurement of commissioned art and rotating exhibits as part of the Percent for Arts program.

#### **Employee Breakroom**

This project will provide a third MSP employee break room that will have a guiet area for employees who work multiple shifts on the campus to eat, read, etc. By providing this quality work support area, front line and other employees will be able to rest and eat out of view of the public.

#### 21 – Field and Runway

Establish Taxiway J

This project provides for installing pavement marking, taxiway edge lights, and taxiway signs on existing pavement between Taxiway M and Taxiway Q, adjacent to Fire Station No. 2 in order to utilize as a restricted taxiway.

#### Runway 4-22 In-Pavement Guard Lights

This project provides for the installation of in-payement runway guard lights on Runway 4-22 at the intersections with both Runway 12R-30L and Runway 12L-30R.

#### Taxiwavs Bravo & Quebec Centerline Lights

This project provides for the construction of taxiway centerline lighting systems for taxiways Bravo and Quebec, located adjacent to the Terminal 1-Lindbergh aprons through the intersections with taxiway Delta. Work includes removal of existing taxiway centerline reflectors, installation of taxiway centerline lights and conductors, and modifications at the airfield lighting control building.

#### 46 – Hangars and Other Buildings

#### MAC Storage Facility

This project will construct a new building to provide storage and associated workspace to replace storage spread around the campus in buildings that can no longer provide adequate protection from the elements and pests.

#### 66 – Fire

#### **Campus Fire Protection**

This project is part of a new multi-year program to upgrade fire protection systems in various MAC-owned buildings on the MSP campus.

#### 76 – Environment

#### **Storm Sewer Rehabilitation**

This is the second of a two-year program that supports and complies with the 2017 MAC/MPCA Memorandum of Understanding concerning the MSP Glycol Collection Program. This project provides for cleaning, inspection, and rehabilitation of storm sewers and glycol sewers at various locations where aircraft deicing occurs, to enhance collection and storage of glycol-impacted stormwater resulting from deicing operations.

#### **MSP Ongoing Maintenance Projects**

#### 10 – Terminal 1- Lindbergh

### **Electrical Infrastructure Program**

\$1,500,000 There are 53 electrical substations that serve the Terminal 1-Lindbergh complex. It is imperative that these substations be inspected, cleaned, and upgraded in order to ensure their continued performance. This is a continuation of a multi-year program that began in 2009.

#### Electrical Substation

\$9,000,000

# \$500,000

\$1,800,000

\$870.000

\$250,000

\$150,000

\$500,000

\$6,400,000

Emergency Power Upgrades

A study and survey of Terminal 1-Lindbergh transfer switches and emergency lighting was completed in 2008. This year's project is part of a multi-year program that will continue the design and implementation of emergency power and lighting corrective work identified in this study.

#### **Terminal Miscellaneous Modifications**

Each year, there is a list of maintenance projects that are beyond the resources of the MAC's maintenance and trades staff to accomplish. These projects are prioritized and completed either as a series of contracts or as purchase orders. Typical work includes door replacements, emergency upgrades to mechanical, electrical, plumbing or HVAC systems, loading dock work, etc. The list of potential projects will be compiled and prioritized in early 2019.

#### Air Handling Unit Replacement

There are existing air handling units serving Terminal 1-Lindbergh that were installed with the original terminal construction in 1958-60 and are over 50 years old. A study of these units has been completed that evaluated each unit's age, condition, and its ability to adequately heat or cool the spaces it serves. A multi-year program has been implemented to provide for the replacement of the units that have been identified as needing replacement. The project costs include modifications to building walls to facilitate the removal of existing equipment and installation of the new units, upgraded electrical and temperature controls, and asbestos abatement.

#### **Conveyance System Upgrades**

A study of the MSP campus conveyance systems including elevators, escalators, moving walks, dumbwaiters, and material lifts was completed by the Facilities Department's conveyance consultant. The study evaluated the useful life of each system including the availability of replacement parts and technical support of the equipment. Many of the systems are being operated by outdated technology that is generally less efficient than modern control equipment. Some of the systems do not include safety devices or features that are commonly installed on modern equipment. This multi-year program modernizes and replaces elements of the conveyance systems if needed.

#### Plumbing Infrastructure Upgrades

In 2010, MAC staff prepared a preliminary study of the reliability and maintainability of the existing plumbing infrastructure. Portions of the existing plumbing infrastructure serving Terminal 1-Lindbergh are over 40 years old, have systems that are undersized for today's demands, contain isolation valves that are either inaccessible or no longer functional, and utilize aging water meter systems. There are also deteriorated sections of the existing sanitary and storm water systems. This ongoing program was implemented in 2012 to upgrade the plumbing infrastructure system to meet current code requirements and MAC standards. The focus of the 2019 project is to continue the replacement of aging plumbing systems.

#### **Terminal Building Remediation**

Continual maintenance of the terminal buildings is imperative to passenger comfort and safety as well as sustainability of the MAC asset. Age and weather contribute to building deterioration, mold, and other health issues. Building and concourse envelope issues include curtain wall systems, glazing, sealant repair/replacement, louver repair/replacement, metal panel repair/replacement, and soffit repair/replacement and insulation systems.

#### **Concourse G Rehabilitation**

This multi-year program will provide operational improvements to the existing concourse over time, including replacing elevators, modifying and replacing structural, electrical, and mechanical systems.

#### **Baggage System Upgrades**

This multi-year program will provide necessary upgrades to the inbound and outbound baggage system not covered by general system maintenance.

# 13 – Energy Management Center

EMC Plant Upgrades (T1 & T2)

This multi-year program provides upgrades to the MAC's Energy Management Center (EMC) Boiler and Chiller Plants at both Terminal 1-Lindbergh and Terminal 2-Humphrey. The work includes upgrades to the aging Chilled Water and Heating Water systems throughout both terminals. The pumping and piping systems on both the heating and cooling systems are aging and in need of repair work beyond regular maintenance.

# \$2.400.000

#### \$2,500,000

\$3.000.000

# \$2,000,000

\$500.000

# \$500,000

\$4.000.000

### \$1.500.000

#### 2018 Budget Construction Fund

#### \$1,500,000

# 21 – Field and Runway

**Pavement Joint Sealing/Repair** 

This is an ongoing program to provide for the resealing of joints, sealing of cracks, and limited surface repairs on existing concrete pavements. The areas scheduled for sealing will be as defined in the overall joint sealing program or as identified by staff inspection in the early spring of each year.

# **Miscellaneous Airfield Construction**

This is an ongoing program to consolidate various items beyond the capabilities of the maintenance personnel, projects too small to be accomplished independently, or to handle airside problems requiring repair which come up unexpectedly.

### 26 – Terminal Roads/Landside

\$100.000 Tunnel/Bridge Rehabilitation The MSP Campus has MAC-owned bridges and tunnels. Bridge and tunnel inspections are conducted each year to identify maintenance and repairs which are then implemented in a timely fashion.

MAC Tunnel at MSP

### 31 – Parking

#### T1/T2 Parking Structure Rehabilitation

This is an annual program to maintain the integrity of the airport's multi-level parking structures. Projects typically include concrete repair, joint sealant replacement, expansion joint repairs, concrete sealing and lighting improvements.

#### 39 – Public Areas/Roads

#### Landside Pavement Rehabilitation

This is an ongoing program to construct or reconstruct bituminous pavements outside of the Air Operations Area (AOA). Inspection of pavements and appurtenances determines what areas are to be prioritized for rehabilitation under each year's project.

#### **Roadway Fixture Refurbishment**

Many of the light poles, clearance restriction boards, sign units, fence sections, and canopies on the airport roadways are in need of repainting and maintenance. This project provides for refurbishment of these fixtures.

### 46 – Hangars and Other Buildings

#### **MSP Campus Building Roof Replacements**

A report has been developed within the MAC that evaluates one-half of the roofs every other year. This ongoing program allows these roofs that have been evaluated to be prioritized and programmed for repair. Emergency repairs may also be needed on some roofs; this program will provide dollars for such instances.

#### End of Life Campus Building Demolition

This is the first of multiple years of demolition of buildings to be replaced by the MAC Storage Facility described above.

### **MSP Noise Mitigation Projects**

#### **Noise Mitigation Consent Decree Amendment**

The Consent Decree First Amendment Program is a residential noise mitigation program that began in March 2014 under the terms of an amended legal agreement (Consent Decree) between the Metropolitan Airports Commission (MAC) and the cities of Richfield, Minneapolis, and Eagan, and approved by the Hennepin County District Court (effective until December 31, 2024). Under this program, eligibility of single-family and multi-family homes will be determined annually, based upon actual noise contours that are developed for the preceding calendar year, beginning in March 2014. This project will provide noise mitigation for those single-family and multi-family homes meeting the eligibility requirements of the program.

#### \$650.000

2018 Budaet Construction Fund

#### \$800.000

\$500.000

# \$200.000

#### \$9,600,000

# \$400,000

\$150.000

\$2.500.000

# **MSP Tenant Projects**

#### 10 - Terminal 1- Lindbergh **Concessions Rebids**

This program provides support for required infrastructure to be brought to lease-lines, shell-space for new buildouts, and for other major changes required to implement the concessions rebid programs at Terminal 1-Lindbergh.

#### **Concessions Upgrades/Revenue Development**

This is an annual program to fund miscellaneous upgrades such as finishes, furniture, signage, and/or modified connections to utilities for the concession programs or other revenue generating programs at MSP.

#### **Delta Gatehold Seating**

This project is the second of a three-year program to replace seating in Delta's leased gatehold areas.

### **Reliever Airports Long Term Comprehensive Plan Projects**

#### 82 – Lake Elmo

#### Runway 14-32 Replacement

The updated Long Term Comprehensive Plan for this airport proposes relocating and extending the primary runway northeast of its current alignment. This year's scope includes the first phase of construction for this project, which primarily focuses on roadway realignment to make way for runway construction.

#### 83 - Airlake

#### South Building Area Development – Phase 1

This project includes phase 1 construction of sanitary sewer mains, water mains, and lot services to the south building area. Phase 1 also includes construction of associated taxilanes and the south entrance road.

#### 85 – Crystal

#### Runway 14R-32L & Taxiway E Modifications

The updated Long Term Comprehensive Plan for this airport proposes "right-sizing" the airport infrastructure, including decommissioning Runway 14R-32L. This project includes converting Runway 14R-32L into a parallel taxiway and rehabilitating portions of Taxiway Echo. The project also includes electrical vault improvements triggered by associated runway lighting modifications. The project budget also includes the required environmental review studies.

### **Reliever Airports Maintenance/Facility Upgrade Projects**

### 81 - St. Paul

#### **MAC Building Improvements**

This is an ongoing program to provide for facility modifications to ensure continued efficient operation of MAC buildings or modifications necessary to meet the requirements of the tenants. This year's project will include improvements to the Administration Building, Equipment Storage Building, Maintenance Building, and both Cold Storage Buildings.

#### **Storm Sewer Improvements Phase 2**

This project includes improvements to the existing storm sewer systems in the West Building Area and infield area between Taxiways Delta and Lima, to improve storm water removal, and to address soil and payement distress in the vicinity of deficient storm sewer structures. The project will also evaluate the potential for improvements to the flood pump stations to maximize efficient removal of storm water from the airfield during flood events.

#### 82 – Lake Elmo

#### **Parallel Taxiways Reconstruction**

This project is part of an ongoing effort to rehabilitate aircraft operational areas (runways, taxiways, aprons) through bituminous overlays, seal coats, or reconstruction to restore the surfaces to a smooth, even condition and improve overall operating conditions. The Lake Elmo Airport suffers from poor subgrade materials, which contribute to the overall deterioration of pavements. This project includes the full-depth reconstruction of the oldest portions of Taxiway Alpha and Bravo not included in previous projects.

#### \$3,200,000

\$200,000

# \$3.000.000

\$3.000.000

### \$ 1,500,000

# \$3.800.000

# \$1,500,000

\$2.300.000

#### \$600.000

#### 2018 Budaet Construction Fund

#### Alleyways – South Building Area Pavement Rehab

This project is part of an ongoing effort to rehabilitate aircraft operational areas (runways, taxiways, aprons) through bituminous overlays, seal coats, or reconstruction to restore the surfaces to a smooth, even condition and improve overall operating conditions. This project includes rehabilitation of alleyways in the South Building Area.

#### **MAC Building Improvements**

This is an ongoing program to provide for facility modifications to ensure continued efficient operation of MAC buildings. This year's project will include improvements to the MAC Maintenance Building.

#### 83 – Airlake

#### **MAC Building Improvements**

This is an ongoing program to provide for facility modifications to ensure continued efficient operation of MAC buildings. This year's project will include improvements to the MAC Maintenance Building.

#### **Public Restroom Facility**

This project includes the construction of a public restroom facility on the north side of the airport.

#### **Plane Wash Pad**

This project includes the construction of a designated airplane wash pad.

#### 84 – Flying Cloud

#### **Taxiway D Pavement Rehabilitation**

This project is part of an ongoing effort to rehabilitate aircraft operational areas (runways, taxiways, aprons) through bituminous overlays, seal coats, or reconstruction to restore the surfaces to a smooth, even condition and improve overall operating conditions. This project includes rehabilitation of Taxiway Delta.

#### **Taxiway E Pavement Rehabilitation**

This project is part of an ongoing effort to rehabilitate aircraft operational areas (runways, taxiways, aprons) through bituminous overlays, seal coats, or reconstruction to restore the surfaces to a smooth, even condition and improve overall operating conditions. This project includes rehabilitation of Taxiway Echo.

#### 85 – Crystal

#### **Taxiways Pavement Rehabilitation**

This is an ongoing program to rehabilitate aircraft operational areas (runways, taxiways, aprons) through bituminous overlays, seal coats, or reconstruction to restore the surfaces to a smooth, even condition and improve overall operating conditions. This project includes the rehabilitation of the taxiway or portions of taxiways in most need of repair. The pavement condition index report, as well as an inspection of the pavement, will be completed to determine the area most in need of repair.

#### 86 – Anoka County - Blaine

#### **Alleyways Pavement Reconstruction**

This is an ongoing program to reconstruct aircraft operational areas (runways, taxiways, aprons) through bituminous overlays, seal coats, reconstruction to restore the surfaces to a smooth, even condition and improve overall operating conditions. This project includes rehabilitation of alleyways in the West Building Area.

#### South Service Road & East Landside Road Pavement Reconstruction

This is an ongoing effort to rehabilitate airport pavements through bituminous overlays, seal coats, reconstruction to restore the surfaces to a smooth, even condition and improve overall operating conditions. This project includes the rehabilitation of the airport service road connecting the east and west building areas.

#### **Obstructions Removal**

This project will address identification and removal of obstructions to the runway approach surfaces.

#### \$900.000

#### \$400.000

# \$400.000

# \$300,000

# \$150,000

\$600.000

# \$600,000

#### \$700,000

# \$1,000,000

\$750,000

### \$100,000

# 2018 Budaet Construction Fund

# 2019 Capital Improvement Program Funding Sources

The following table shows the funding sources for the 2018 Capital Improvement Program projects. A cash flow summary appears later in the section.

2019 Capital Improvement Program Funding			Federal-State		Line of	MAC-Airline	<u> </u>	
	2019	PFC 16	Grants	GARBS	Credit	Funds		Tota
MSP End of Life/Replacement Projects	2015	11010	Grants	GANDS	creat	- Tunus	<u> </u>	100
10 - Terminal 1 Lindbergh								
Passenger Boarding Bridge Replacements	\$ 4,000,000	\$ 4,000,000					\$	4,000,000
Tram Systems Retrofit and Equipment	\$ 1,500,000	\$ 4,000,000				\$ 1,500,000		1,500,000
Replace Terminal 1 Tug Doors	\$ 1,500,000					\$ 600,000		600,000
21 - Field and Runways	\$ 600,000					\$ 600,000	Ş	600,000
	\$ 750,000					\$ 750,000	ć	750,000
Snow Melter Upgrades/Modifications 26 - Terminal Roads/Landside	\$ 730,000					\$ 750,000	Ş	730,000
28th Avenue Water main Replacement	\$ 1,250,000					\$ 1,250,000	ć	1 250 000
36 - Terminal 2 Humphrey	\$ 1,230,000					\$ 1,230,000	Ş	1,230,000
Public Walk Aisle Terrazzo Floor Installation	\$ 1,700,000					\$ 1,700,000	ć	1 700 000
66 - Fire	\$ 1,700,000					\$ 1,700,000	Ş	1,700,000
MSP Campus Fire Alarm System Upgrade/Transition	\$ 1,000,000					\$ 1,000,000	\$	1,000,000
	\$ 10,800,000	ć 4.000.000	ć	Ś -	Ś -	\$ 6,800,000	_	
MSP End of Life/Replacement Subtotal	\$ 10,800,000	\$ 4,000,000	Ş -	ş -	Ş -	\$ 6,800,000	<u> </u>	10,800,000
MSP IT Projects							<u> </u>	
10 - Terminal 1 Lindbergh	ć 4 500 000					¢ 4 500 000	10	4 500 000
Intelligent Monitoring and Control Systems (IMACS)	\$ 1,500,000					\$ 1,500,000		
Telecom Room Equipment Continuity (TREC)	\$ 1,500,000					\$ 1,500,000		
IT Miscellaneous Modifications	\$ 8,400,000					\$ 8,400,000	Ş	8,400,00
63 - Police	ć 2.000.000	¢ 2,000,000					10	2 000 00
Card Access Modifications MSP IT Subtotal	\$ 2,000,000	\$ 2,000,000	\$ -	\$ -	\$ -	ć 11 100 000	-	2,000,00
	\$ 13,400,000	\$ 2,000,000	Ş -	Ş -	ş -	\$ 11,400,000	\$ 1	13,400,00
MSP Long Term Comprehensive Plan Projects							<u> </u>	
10 - Terminal 1 Lindbergh							-	
MSP Long Term Comp Plan	\$ 1,500,000					\$ 1,500,000		
Baggage Claim/Ticket Lobby Operational Improvements	\$ 81,000,000			\$11,800,000		\$ 1,200,000		
Armed Forces Service Center Relocation	\$ 1,100,000		\$ 500,000			. ,		1,100,000
Valet Parking Lobby & Restroom Upgrade		\$ 2,000,000				\$ 3,000,000		
Automated Security Lanes	\$ 3,000,000	\$ 3,000,000					Ş	3,000,000
21 - Field and Runways							-	
Taxiway C1 Construction	\$ 6,000,000	\$ 2,400,000	\$ 3,600,000				Ş	6,000,000
31 - Parking							-	
T1 Parking Ramp - Parking Ramp Modifications	\$ 17,000,000			\$17,000,000			Ş 1	17,000,000
36 - Terminal 2 Humphrey							-	
Automated Security Lanes	\$ 3,000,000					\$ -		3,000,000
MSP Long Term Comprehensive Plan Subtotal	\$ 117,600,000	\$ 78,600,000	\$ 4,100,000	\$28,800,000	Ş -	\$ 6,100,000	\$11	17,600,000
MSP Maintenance/Facility Upgrade Projects								
10 - Terminal 1 Lindbergh								
Restroom Upgrade Program	\$ 500,000					\$ 500,000		500,000
Way-Finding Sign Backlighting Replacement	\$ 1,600,000					\$ 1,600,000		1,600,000
Lighting Infrastructure Technology and Equipment (LITE)	\$ 1,500,000					\$ 1,500,000		1,500,000
Art Display Areas	\$ 500,000					\$ 500,000		500,000
Art Master Plan	\$ 870,000					\$ 870,000		870,00
Employee Breakroom	\$ 250,000					\$ 250,000	\$	250,000
21 - Field and Runways								
Taxiway J	\$ 150,000					\$ 150,000		150,000
Runway 4-22 In-Pavement Guard Lights	\$ 500,000						\$	500,000
Taxiway Bravo & Quebec Centerline Lights	\$ 6,400,000	\$ 2,600,000	\$ 3,800,000				\$	6,400,000
46 - Hangars & Other Buildings						\$ 9,000,000	\$	9,000,000
MAC Storage Facility	\$ 9,000,000							
MAC Storage Facility 66 - Fire						A	-	= 0.0
MAC Storage Facility 66 - Fire Campus Fire Protection	\$ 9,000,000					\$ 500,000	\$	500,00
MAC Storage Facility 66 - Fire				\$ 1,800,000		\$ 500,000		500,00

2019 Capital Improvement Program Funding	-						-
			Federal-State		Line of	MAC-Airline	
	2019	PFC 16	Grants	GARBS	Credit	Funds	Tota
MSP Ongoing Maintenance Programs							
10 - Terminal 1 Lindbergh	¢ 4 500 000					¢ 1 500 000	C 4 500 000
Electrical Infrastructure Program	\$ 1,500,000					\$ 1,500,000	
Terminal Miscellaneous Modifications	\$ 2,400,000					\$ 2,400,000	
Emergency Power Upgrades	\$ 1,500,000			4 9 500 000		\$ 1,500,000	
Air Handling Unit Replacement	\$ 2,500,000			\$ 2,500,000			\$ 2,500,000
Conveyance System Upgrades	\$ 3,000,000			\$ 3,000,000			\$ 3,000,000
Plumbing Infrastructure Upgrade Program	\$ 500,000						\$ 500,000
Terminal Building Remediation Program	\$ 2,000,000					\$ 2,000,000	
Concourse G Rehabilitation	\$ 4,000,000			\$ 4,000,000			\$ 4,000,000
Baggage System Upgrades	\$ 500,000					\$ 500,000	\$ 500,000
13 - Energy Management Center							
EMC Plant Upgrades (T1 & T2)	\$ 1,500,000					\$ 1,500,000	\$ 1,500,000
21 - Field and Runways							
Pavement Joint Sealing/Repair	\$ 650,000					\$ 650,000	
Miscellaneous Airfield Construction	\$ 800,000					\$ 800,000	\$ 800,000
26 - Terminal Roads/Landside							
Tunnel/Bridge Rehabilitation	\$ 100,000					\$ 100,000	\$ 100,000
31 - Parking							
T1/T2 Parking Structure Rehabilitation	\$ 2,500,000					\$ 2,500,000	\$ 2,500,000
39 - Public Areas/Roads							
Landside Pavement Rehabilitation	\$ 400,000					\$ 400,000	\$ 400,000
46 - Hangars & Other Buildings						,	,500
MSP Campus Building Roof Replacements	\$ 500,000					\$ 500,000	\$ 500,000
Campus Building Demolition	\$ 200,000					\$ 200,000	
MSP Ongoing Maintenance Subtotal	\$ 24,550,000	Ś.,	Ś -	\$ 9,500,000	Ś -	1	\$ 24,550,000
	\$ 24,330,000			\$ 5,500,000	Ŷ -	\$ 13,030,000	
MSP Noise Mitigation Projects							
76 - Environment							
Noise Mitigation Consent Decree Amendment	\$ 11,500,000				\$11,500,000		\$ 11,500,000
MSP Noise Mitigation Subtotal	\$ 11,500,000	\$-	\$-	\$-	\$11,500,000	\$ -	\$ 11,500,000
MSP Tenant Projects							
10 - Terminal 1 Lindbergh							
Concession Rebids	\$ 3,200,000			\$ 3,200,000			\$ 3,200,000
Concession Upgrades/Revenue Development	\$ 200,000			\$ 3,200,000		\$ 200,000	\$ 3,200,000
				¢ 2,000,000		\$ 200,000	. ,
Delta Gatehold Seating				\$ 3,000,000	4		
MSP Tenant Subtotal	\$ 6,400,000	Ş -	\$-	\$ 6,200,000	Ş -	\$ 200,000	\$ 6,400,000
Reliever Airports Long Term Comprehensive Plan Projects							
82 - Lake Elmo							
Runway 14-32 Replacement	\$ 3,000,000		\$ 2,150,000			\$ 850,000	\$ 3,000,000
83 - Airlake							
South Building Area Development - Phase 1	\$ 1,500,000					\$ 1,500,000	\$ 1,500,000
85 - Crystal							
Runway 14R-32L & Taxiway E Modifications	\$ 3,800,000					\$ 3,800,000	\$ 3,800,000
Reliever Airports Long Term Comprehensive Plan Subtotal	\$ 8,300,000	¢ .	\$ 2,150,000	\$ -	\$ -		\$ 8,300,000
Reliever Airports Maintenance/Facility Upgrade Projects	\$ 6,566,666	Ŷ	¢ 2,130,000	Ŷ	Ŷ	\$ 0,100,000	<i>\$</i> 0,000,000
81 - St. Paul							
MAC Building Improvements	\$ 2,100,000					\$ 2,100,000	
Storm Sewer Improvements - Phase 2	\$ 1,500,000		\$ 1,000,000			\$ 500,000	\$ 1,500,000
82 - Lake Elmo							
Parallel Taxiways Reconstruction	\$ 600,000		\$ 425,000			\$ 175,000	\$ 600,000
Alleyways - South Building Area Pavement Rehab	\$ 900,000		\$ 50,000			\$ 850,000	\$ 900,000
MAC Building Improvements	\$ 400,000					\$ 400,000	\$ 400,000
83 - Airlake							
MAC Building Improvements	\$ 400,000					\$ 400,000	\$ 400,000
Public Restroom Facility	\$ 300,000					\$ 300,000	
Plane Wash Pad	\$ 150,000					\$ 150,000	
84 - Flying Cloud	÷ 100,000					- 100,000	- 150,000
Taxiway D Pavement Rehabilitation	\$ 600,000		\$ 425,000			\$ 175,000	\$ 600,000
Taxiway D Pavement Rehabilitation	\$ 600,000		\$ 425,000			\$ 175,000	
	ຸລຸ 600,000		÷ 425,000			÷ 1/3,000	÷ 000,000
85 - Crystal	ć 700.000		ć 500.000			ć 300.000	ć 700.000
Taxiway Pavement Rehabilitation	\$ 700,000		\$ 500,000			\$ 200,000	\$ 700,000
86 - Anoka County - Blaine	A		A			A	A
Alleyway Pavement Rehabilitation	\$ 750,000		\$ 525,000			\$ 225,000	
South Service Road & East Landside Road Pavement Reconstruction	\$ 1,000,000		\$ 700,000			\$ 300,000	
Obstruction Removal	\$ 100,000						\$ 100,000
Reliever Airports Maintenance/Facility Upgrade Subtotal	\$ 10,100,000	\$ -	\$ 4,050,000	\$-	\$-	\$ 6,050,000	\$ 10,100,000
MSP Subtotal	\$ 207,820,000	\$ 87,700,000	\$ 7,900,000	\$46,300,000	\$11,500,000	\$ 54,420,000	\$ 207,820,000
Reliever Subtotal	\$ 18,400,000	\$ -	\$ 6,200,000	\$ -	\$ -	\$ 12,200,000	\$ 18,400,000
							\$ 226,220,000
Total			\$14,100,000				

# 2020-2024 Capital Improvement Plan

This encompasses the last five years of the total program and consists of projects that appear likely to be needed during the period.

			Federal-State		Line of	MAC-Airline
	2020-2024	PFC 16	Grants	GARBS	Credit	Funds
MSP End of Life/Replacement Projects						
10 - Terminal 1 Lindbergh						
Passenger Boarding Bridge Replacements	\$ 21,000,000	\$ 15,500,000	\$ 5,500,000			
Recarpeting Program	\$ 14,000,000	,,	,,			\$ 14,000,000
13 - Energy Management Center						
VAV Box Replacement	\$ 3,000,000					\$ 3,000,000
21 - Field and Runways						
Taxiway D Reconstruction	\$ 10,000,000	\$ 4,000,000	\$ 6,000,000			
Sanitary Sewer Replacement 34th Avenue	\$ 2,150,000	, ,,	\$ 1,500,000			\$ 650,000
Sanitary Sewer Replacement Taxiway R	\$ 3,250,000				\$ 1,500,000	\$ 1,750,000
26 - Terminal Roads/Landside	, , ,				. ,,.	, , , , , , , , , , , , , , , , , , , ,
Lower Level Roadway Rehabilitation	\$ 1,100,000					\$ 1,100,000
Upper Level Roadway Rehabilitation	\$ 2,000,000					\$ 2,000,000
Upper Level Roadway Electrical System Rehabilitation	\$ 750,000					\$ 750,000
Variable Message Signs Replacements - Phase 3	\$ 1,600,000					\$ 1,600,000
36 - Terminal 2 Humphrey	¢ 1,000,000					¢ 1,000,000
Recarpeting Program	\$ 2,000,000					\$ 2,000,000
66 - Fire	÷ 2,000,000					\$ 2,000,000
MSP Campus Fire Alarm System Upgrade/Transition	\$ 1,000,000					\$ 1,000,000
ARFF #2	\$ 10,500,000	\$ 7,500,000		\$ 3,000,000		¢ 1,000,000
MSP End of Life/Replacement Subtotal	\$ 72,350,000		\$ 13,000,000		\$ 1,500,000	\$ 27,850,000
MSP IT Projects	<i>\$ 72,330,000</i>	\$ 27,000,000	\$ 13,000,000	\$ 3,000,000	÷ 1,500,000	<i>\$</i> 27,030,000
-						
10 - Terminal 1 Lindbergh	¢ 45 000 000					¢ 45 000 000
IT Miscellaneous Modifications	\$ 45,000,000					\$ 45,000,000
Telecom Room Equipment Continuity (TREC)	\$ 4,500,000 \$ 3.000.000					\$ 4,500,000 \$ 3,000,000
Intelligent Monitoring and Control Systems (IMACS)	\$ 3,000,000					\$ 3,000,000
63 - Police	¢ 2 500 000	¢ 2 500 000				
Card Access Modifications	\$ 3,500,000	\$ 3,500,000	4			+ == === ===
MSP IT Subtotal	\$ 56,000,000	\$ 3,500,000	\$ -	\$-	\$ -	\$ 52,500,000
MSP Long Term Comprehensive Plan Projects						
10 - Terminal 1 Lindbergh						
D-Pod Outbound Baggage System	\$ 5,000,000	\$ 5,000,000				
FIS Recheck Operational Improvements	\$ 8,400,000			\$ 8,400,000		
Baggage Claim/Ticket Lobby Operational Improvements	\$ 84,400,000	\$ 71,090,000		\$ 8,310,000	\$ 5,000,000	\$-
Baggage Handling System	\$ 22,100,000	\$ 22,100,000				
Checkpoint Expansion	\$ 16,400,000	\$ 16,400,000				
Lower Level Curbside Expansion	\$ 12,000,000	\$ 9,000,000				\$ 3,000,000
Automated Security Lanes	\$ 3,000,000	\$ 3,000,000				
Unstaffed Exit Lanes-North Exit	\$ 2,500,000					\$ 2,500,000
31 - Parking						
Orange Ramp Additional Elevators	\$ 2,000,000					\$ 2,000,000
36 - Terminal 2 Humphrey						
FIS Baggage Claim Improvements	\$ 1,000,000					\$ 1,000,000
Automated Security Lanes	\$ 3,000,000	\$ 3,000,000				
North Gate Expansion Design Fees	\$ 5,000,000					\$ 5,000,000
MSP Long Term Comprehensive Plan Subtotal	\$ 164 800 000	\$ 129,590,000	Ś _	\$ 16 710 000	\$ 5,000,000	\$ 13,500,000

					Federa	al-State		Line of	MAC-	Airline
	2	020-2024		PFC 16		Grants	GARBS	Credit		Funds
MSP Maintenance/Facility Upgrade Projects										
10 - Terminal 1 Lindbergh	<i>.</i>	000.000	ć 0							
Restroom Upgrade Program		,000,000	\$8,	000,000					¢ 10	
Way-Finding Sign Backlighting Replacement Folded Plate Repairs		,600,000	¢ 7/	800.000				\$ 5,400,000		500,000 400,000
G Concourse Moving Walks		,000,000		000,000				\$ 5,400,000	Ş 3,4	100,000
Lighting Infrastructure Technology and Equipment (LITE)		,750,000	, ر ڊ	000,000					\$ 7,7	750,000
T1 Public Walk Aisle Terrazzo Floor Installation		,300,000						\$ 7,400,000	. ,	900,000
Art Display Areas		750,000						+ .,,		750,000
Art Master Plan		,162,500								162,500
Observation Deck Improvements		,600,000								, 600,000
Airside Operations Center	\$ 1,	,250,000							\$ 1,2	250,000
13 - Energy Management Center										
Energy Savings Program	\$6,	,000,000							\$ 6,0	000,000
Air Handling Unit Safety Upgrades		550,000								550,000
Indoor Air Quality Monitoring		660,000								660,000
Victaulic Piping Replacement		,000,000								000,000
Concourse G Energy Efficiency Projects		,000,000								000,000
LED Lighting Conversion in Valet Parking	\$	500,000							\$ 5	500,000
21 - Field and Runways	ć 2	000.000	ć 2	000.000						
AOA Gate Improvements		,000,000	. ,	000,000	ć a	500.000			ć 10	
Runway LED Lighting Upgrade		,850,000		500,000		500,000			\$ 1,8	850,000
Perimeter Gate Security Improvements 31 - Parking	Ş 7,	,000,000	Ş 3,	700,000	Ş 3,	300,000				
Parking Ramp Railing Refinishing	\$ 2,	,000,000							\$ 2,0	000,000
36 - Terminal 2 Humphrey	γ 2,	,000,000							Υ 2,C	,00,000
Skyway to LRT Flooring Installation	\$	800,000							\$ 8	800,000
Employee Breakroom		200,000								200,000
T2 Shuttle Waiting Area Expansion		200,000								200,000
56 - Trades/Maintenance Buildings									· -	
South Field Maintenance Building Wash Bay	\$ 1,	,300,000							\$ 1,3	300,000
63 - Police										
Safety & Operations Center	\$ 35,	,000,000					\$35,000,000			
Perimeter Fence Intrusion Detection System	\$3,	,000,000	\$2,	400,000	\$	600,000				
66 - Fire										
Campus Fire Protection	\$ 1,	,500,000							\$ 1,5	500,000
70 - General Office/Administration										
GO Building Improvements	\$	500,000							\$ 5	500,000
76 - Environment										
Runway 12R-30L Glycol Force main Environmental Improvements		,400,000				700,000				700,000
T2 Remote Ramp Lot/Drainage Improvements		,000,000			\$ 1,	200,000				800,000
Ground Service Equipment Electrical Charging Stations		,700,000								700,000
Lift Stations at Pond 1 and 2		800,000	A 10		A 0.		+ -=			800,000
MSP Maintenance/Facility Upgrades Subtotal	Ş 162,	,972,500	Ş 49,	400,000	Ş 8,	300,000	\$35,000,000	\$12,800,000	Ş 57,4	172,500
MSP Ongoing Maintenance Programs										
10 - Terminal 1 Lindbergh										
Electrical Infrastructure Program		,000,000								000,000
Emergency Power Upgrades		,000,000								000,000
Electrical Substation Replacement		,600,000								500,000
Terminal Miscellaneous Modifications		,300,000								300,000
Air Handling Unit Replacement		,500,000								500,000
Conveyance System Upgrades Plumbing Infrastructure Upgrade Program		,000,000								000,000 000,000
Terminal Building Remediation Program		,000,000							\$ 13,0	
Concourse G Rehabilitation		,000,000						\$ 3,000,000	\$ 20,0	
Baggage System Upgrades		,500,000						- 5,550,000		500,000 500,000
13 - Energy Management Center		,							, _,-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
EMC Plant Upgrades (T1 & T2)	\$ 4,	,300,000							\$ 4,3	300,000
21 - Field and Runways	,	,							/-	,,
Airside Bituminous Rehabilitation/Electrical Construction	\$ 9,	,900,000						\$ 2,500,000	\$ 7,4	400,000
Pavement Joint Sealing/Repair		,250,000								250,000
Miscellaneous Airfield Construction	\$ 1,	,900,000							\$ 1,9	900,000
26 - Terminal Roads/Landside										
Tunnel/Bridge Rehabilitation	\$	500,000							\$ 5	500,000
31 - Parking										

2020-2024 Capital Improvement Program Funding	· · · · · ·		Fodoral State		Line of	MAC-Airline
	2020-2024	PFC 16	Federal-State Grants	GARBS	Credit	Funds
MSP Ongoing Maintenance Programs-Continued						
39 - Public Areas/Roads						
Landside Pavement Rehabilitation	\$ 2,400,000					\$ 2,400,000
Roadway Fixture Refurbishment	\$ 600,000					\$ 600,000
46 - Hangars & Other Buildings						
MSP Campus Building Roof Replacements	\$ 5,000,000					\$ 5,000,000
Campus Building Rehab Program	\$ 6,500,000					\$ 6,500,000
Campus Parking Lot Reconstructions	\$ 1,300,000					\$ 1,300,000
Campus Building Demolition	\$ 575,000					\$ 575,000
MSP Ongoing Maintenance Subtotal	\$ 148,625,000	\$-	\$ -	\$-	\$ 5,500,000	\$ 143,125,000
MSP Noise Mitigation Projects						
76 - Environment						
Noise Mitigation Consent Decree Amendment	\$ 17,100,000				\$15,100,000	\$ 2,000,000
MSP Noise Mitigation Subtotal	\$ 17,100,000	\$-	\$ -	\$ -	\$15,100,000	\$ 2,000,000
MSP Tenant Projects						
10 - Terminal 1 Lindbergh						
Concession Upgrades/Revenue Development	\$ 1,000,000					\$ 1,000,000
Delta Gatehold Seating	\$ 3,000,000				\$ 3,000,000	, ,,
MSP Tenant Subtotal	\$ 4,000,000	\$-	\$ -	\$ -	\$ 3,000,000	\$ 1,000,000
Reliever Airports Long Term Comprehensive Plan Projects	¢ 1,000,000	Ŷ	Ŷ	Ŷ	\$ 5,000,000	<i>\$</i> 1,000,000
	_					
82 - Lake Elmo	ć 100.000					ć 100.000
Long Term Comp Plan	\$ 100,000		ć 1 400 000			\$ 100,000
Runway 14-32 Replacement Airfield Modifications	\$ 4,000,000 \$ 3,000,000		\$ 1,400,000 \$ 2,150,000			\$ 2,600,000 \$ 850,000
83 - Airlake	\$ 3,000,000		\$ 2,150,000			\$ 850,000
Long Term Comp Plan	\$ 100,000					\$ 100,000
Runway 20-30 Improvements	\$ 3,500,000		\$ 2,450,000			\$ 1,050,000
85 - Crystal	\$ 5,500,000		\$ 2,430,000			\$ 1,050,000
Long Term Comp Plan	\$ 100,000					\$ 100,000
86 - Anoka County - Blaine	\$ 100,000					\$ 100,000
Building Area Development - Xylite Street Relocation	\$ 1,000,000					\$ 1,000,000
	\$ 11,800,000	Ś -	\$ 6,000,000	Ś -	\$ -	\$ 5,800,000
Reliever Airports Long Term Comprehensive Plan Subtotal	\$ 11,600,000	Ş -	\$ 0,000,000	- ș	Ş -	\$ 5,800,000
Reliever Airports Maintenance/Facility Upgrade Projects						
81 - St. Paul						
Joint and Crack Repairs	\$ 300,000					\$ 300,000
MAC Building Improvements	\$ 1,400,000					\$ 1,400,000
Runway 13-31 Pavement Reconstruction	\$ 5,000,000		\$ 3,000,000			\$ 2,000,000
Cold Equipment Storage Building	\$ 750,000					\$ 750,000
LED Edge Lighting Upgrades	\$ 2,500,000		\$ 300,000			\$ 2,200,000
Runway 14-32 Reconstruction	\$ 5,000,000		\$ 3,600,000			\$ 1,400,000
Airport Perimeter Roads	\$ 900,000					\$ 900,000
Taxiway B Rehabilitiation	\$ 800,000		\$ 500,000			\$ 300,000
82 - Lake Elmo						
Parallel Taxiways Reconstruction	\$ 600,000					\$ 600,000
Runway 4-22 Pavement Rehabilitation	\$ 4,000,000		\$ 2,800,000			\$ 1,200,000
North Building Area Pavement Rehabilitation	\$ 900,000					\$ 900,000
83 - Airlake						
Runway 12-30 Reconstruction	\$ 3,500,000		\$ 1,500,000			\$ 2,000,000
Joint and Crack Repairs	\$ 150,000					\$ 150,000
LED Edge Lighting	\$ 700,000					\$ 700,000
84 - Flying Cloud	¢ 200.007					¢ 200.0
Taxiways A1, A3, F Pavement Rehabilitation	\$ 300,000					\$ 300,000
MAC Building Improvements	\$ 520,000					\$ 520,000
85 - Crystal						* ***
Alleyway Pavement Rehabilitation	\$ 550,000		\$ 150,000			\$ 400,000
MAC Building Improvements	\$ 1,000,000		¢ 275.000			\$ 1,000,000
LED Edge Lighting Upgrades	\$ 800,000		\$ 275,000			\$ 525,000
86 - Anoka County - Blaine	ć 1 500 000		ć 200.000			ć 1 200 000
Alleyway Pavement Rehabilitation	\$ 1,500,000		\$ 300,000			\$ 1,200,000
Air Traffic Control Tower Equipment Upgrades	\$ 100,000					\$ 100,000
MAC Building Improvements	\$ 700,000		¢ 200.000			\$ 700,000
LED Edge Lighting Upgrades	\$ 2,500,000		\$ 300,000 \$ 400,000			\$ 2,200,000
West Perimeter Road	\$ 700,000 \$ 750,000		\$ 400,000			\$ 300,000 \$ 750,000
Electrical Vault Improvements	, ,		A 40 105 005	<u>,</u>	*	
Reliever Airports Maintenance/Facility Upgrade Subtotal	\$ 35,920,000	\$ -	\$ 13,125,000	ş -	\$ -	\$ 22,795,000
	+.					
MSP Subtotal	\$ 625,847,500					\$ 297,447,500
Reliever Subtotal	\$ 47,720,000	<u>\$</u> -	\$ 19,125,000	<u>\$</u> -	<u>\$</u> -	<u>\$ 28,595,000</u>
Total	\$ 673,567,500	\$ 209,490,000	\$ 40,425,000		\$42,900,000	\$ 326,042,500

### Sources and Uses of Funds

From December 31, 2015 through 2020, the MAC has identified eight funding sources totaling \$1,344,193,000 including a beginning balance of \$368,365,000. During this period, the MAC will expend \$1,310,548,000 leaving a net balance of \$420,010,000 at the end of 2020. This balance represents a portion of the 2018, 2019 and 2020 CIP projects that were started but not completed by December 31, 2020 and Passenger Facility Charges (PFCs) to pay future debt service.

The Construction Fund Budget below represents anticipated sources and uses of funds during the years 2016-2020. The information for 2017 indicates expected transactions during the fourth quarter.

CONSTRUCTION FUND BUDGET 2018													
(\$ = 000)													
		2016		2017		2017	2018		2019		2020		Total
		Actual	Ē	stimated	ſ	Budget	Budget	P	rojected	<u>P</u>	rojected	F	Projected
Sources of Funds													
Balance 12/31/15	\$	368,365										\$	368,365
Balance Carried Forw ard			\$	680,530	\$	688,408	\$ 633,381	\$	512,255	\$	513,993		
Transfer From Operating Fund		52,124		65,669		67,331	75,592		66,561		60,715		320,661
PFC Funding		72,207		72,345		73,276	74,155		75,045		75,946		369,698
Federal/State Grants		17,473		11,431		3,025	9,600		14,100		12,050		64,654
Interest Income (1)		5,581		5,349		5,692	4,600		3,600		4,500		23,630
Short-term line of credit		-		28,000		27,800	32,700		11,500		17,600		89,800
Principal Amount of Bonds/Notes		388,232		-		-	-		84,010		-		472,242
Other Receipts		3,508	_	-		-	 -		-	_	-		3,508
Total Sources of Funds	\$	539,125	\$	182,794	\$	177,124	\$ 196,647	\$	254,816	\$	170,811	\$	1,344,193
Uses of Funds													
CIP Project Costs	\$	(197,172)	\$	(202,489)		(326,918)	(291,529)		(226,841)		(256,555)	\$	(1,174,586
Debt Service Reserve Transfer	_	(29,788)	_	(27,454)	_	(27,532)	 (26,244)	_	(26,237)	_	(26,239)	_	(135,962
Total Use of Funds	\$	(226,960)	\$	(229,943)	\$	(354,450)	\$ (317,773)	\$	(253,078)	\$	(282,794)	\$	(1,310,548
Balance Carried Forw ard	\$	680,530	\$	633,381	\$	511,083	\$ 512,255	\$	513,993	\$	402,010	\$	402,010
1 Interest Pate Assumed 1.0% for the pr	oriod	2016 throw	ah 1	010									

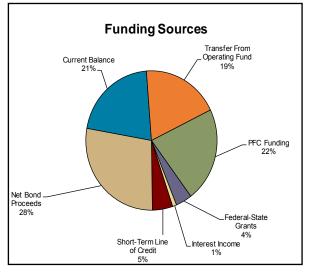
1 Interest Rate Assumed 1.0% for the period 2016 through 2018.

Excluding the current balance, the accompanying chart shows that transfers from the Operating Fund, bond proceeds and funds from PFCs are the main funding sources for construction projects.

#### Sources of Funds

Each source of funding is discussed below.

The <u>Transfer from the Operating Fund</u> is made at the end of each year after the debt service requirements and working capital balance have been funded. For 2018, a transfer of \$75.6 million is anticipated based on 2017 estimated net revenues. The transfer for 2018 increased slightly due to higher concession revenues, while 2019 decreases due to the increased debt service payments associated with the 2016 bond issue. The balance to be transferred for the period is estimated at \$320.7 million or 19%.



Passenger Facility Charge (PFC) funding is one of the largest funding sources at \$369.7 million or 22% of the total. PFCs were authorized by Congress to allow proprietors of commercial service airports, such as the MAC, to impose a charge on enplaning passengers at those airports. The charge was originally set at \$1, \$2 or \$3. The maximum allowed was changed from \$3.00 to \$4.50 in 2001. Essential Air Service Flights and Frequent Flyers are exempted from this charge. The basis for the PFC is to provide needed supplemental revenues to expedite

the improvement of airport facilities used by passengers to mitigate noise impacts and to expand airport system capacity. The Commission's first application began collecting PFCs on June 1, 1992.

Including this first application, the Commission has received approval from the Federal Aviation Administration (FAA) for 11 separate applications. The Commission expects to file one new PFC application in the 2018 timeframe. The table below shows the status of all applications.

PFC Summa	ry Table		
Application	Amended Approval	Collections as Of 12/31/17 est	
Number	Amount (\$=000)	(\$=000)	Status
1	\$ 92,714	\$ 92,714	Closed
2	140,717	140,717	Closed
3	36,377	36,377	Closed
4	47,801	47,801	Closed
5	112,533	112,533	Closed
6	759,735	480,353	Open
7	14,479	14,479	Open
8	147,986	96,913	Open
9	8,659	8,659	Closed
10	101,472	71,451	Open
11	52,827	52,056	Open
12	40,796	37,407	Open
13	65,212	9,298	Open
14	126,557	95,233	Open
	\$ 1,747,865	\$ 1,295,991	

In conjunction with filing these applications/amendments, the Commission was required to file a Competition Plan. Before any approval/consideration could be given to these applications/amendments, the FAA needed to approve this Plan. Approval from the FAA regarding the original Competition Plan was received on November 21, 2000. In addition, Congress, earlier in 2000, authorized proprietors of commercial service airports to increase the level of PFC up to a maximum of \$4.50. This level of collection required the completion and approval of a Competition Plan for the airport. The Commission received approval to increase the PFC level to \$4.50 in January, 2001. An updated Competition Plan was submitted in September 2016. Approval of the updated Plan was granted in 2017.

#### Federal and State Grants

Federal Grants are funds which are used for FAA approved projects including Field and Runway and certain terminal building security projects at the various Commission airports. Certain criteria must be met when an application for a project is submitted to the FAA. If the criteria are met, the grant money may be issued. State Grants are similar to Federal Grants. The dollars are on a much smaller scale, but each application must meet the required criteria in order to receive the grant. Total grants are \$64.7 million or 4% of total funding.

<u>Interest Income</u> is based on the balance in the fund. As noted earlier, a 1.0% rate is assumed for 2018 through 2020. This figure can vary significantly depending upon approval of projects and their starting dates. Interest Income of \$23.6 million or 1% of sources is projected.

#### Short-Term Line of Credit

In 2017, the Commission increased its short-term line of credit from \$75 million to \$150 million. Short-term funding allows the Commission to interim fund certain projects until the receipt of grants or PFCs. The Commission also uses short-term funding to interim fund a project until the time it can be replaced with a future long-term debt issue. The Commission expects to issue 88.8 million from its line of credit from 2017-2020.

#### Long-Term Debt

In 2015, the Commission issued approximately \$11.7 million worth of Municipal Receivable Trust Certificates in connection with the construction of solar panels on top of the Commission's parking deck at Terminal 2 parking structures as well as parking lighting improvements at that terminal. In 2016, the Commission issued General Airport Revenue Bonds which netted approximately \$388 million in construction proceeds. The bond proceeds are expected to be used in the expansion of three gates at Terminal 2 and construction of additional parking/rental car facilities at Terminal 1. In 2019, the Commission expects to issue General Airport Revenue Bonds which is expected to net approximately \$84 million in construction proceeds. The bond proceeds are expected to fund various projects around the airport with the majority of the work to be done in Terminal 1.

#### Uses of Funds

There are two general categories of uses listed. The first CIP project costs (\$1,175.0 million) represent 90% of the total. The Debt Service Transfer of \$136.0 million, or 10% of this total, represents the transfer of PFC funding to pay a portion of PFC projects funded by long-term debt.

CIP project costs include both actual construction costs and any fees (i.e. architectural/engineering) which may be associated with the project. Also included in this figure are projects in process. Significant project costs include those associated with parking facilities, Reliever Airports and other field and terminal projects.

The balance carried forward can be attributed to a number of projects scheduled to begin the next year. It is quite possible that this balance could be significantly different as the timing of projects historically has been delayed for any number of reasons.

The table below indicates the amount of projects currently in process with project costs in excess of \$3 million. The vast majority of capital projects in the Commission's Capital Improvement Program are considered routine projects for a major airport and do not affect the annual operating budget.

Projects in Process (As of November 30, 2017) (\$ = 000)			
	Estimated	Payments	Percent
Project Description	Project Cost	To Date	<b>Completion</b>
Fiber Optic Infrastructure Upgrade Expansion	\$4,400	\$3,551	80.7%
T1 - Restroom Upgrades Program	\$16,000	\$5,930	37.1%
2017 Baggage Claim Expansion	\$33,400	\$3,582	10.7%
Vertical Circulation Improvements	\$74,900	\$24,240	32.4%
2017 Ticket Lobby Operational Improvement	\$15,700	\$1,688	10.8%
iVISN Projects (CCTV) Improvements	\$8,500	\$3,798	44.7%
T1-Trams System Retrofit & Equipment	\$6,200	\$3,102	50.0%
Telecom Relocation & Decommissioning Program	\$4,500	\$1,883	41.8%
T1 - Concourse G Rehabilitations	\$12,500	\$5,570	44.6%
2016 Concourse A-G Connector Bridge	\$23,400	\$14,273	61.0%
2016 Mezzanine HVAC/AHU Replacements & Penthouses	\$16,700	\$10,374	62.1%
Passenger Boarding Bridge Program	\$17,100	\$9,559	55.9%
Concourse A/B Pre-Conditioned Air Upgrades	\$6,300	\$4,031	64.0%
T1 - Parking Ramp Projects	\$427,500	\$119,000	27.8%
Distributed Antenna System Program	\$7,500	\$1,527	20.4%
Noise Mitigation Consent Decree Amendment	\$9,200	\$1,525	16.6%
Delta Baggage Handling System Acquisition	\$12,000	\$2,435	20.3%
All Other Projects in Process	\$313,484	\$41,495	13.2%
Total:	\$1,009,284	\$257,563	

# Debt Service Fund

The Debt Service Fund discussion covers four areas: Debt Service Requirement, Long Term Debt, Bond Ratings, and Sources and Uses of Funds.

#### Debt Service Requirement

The Metropolitan Airports Commission (MAC), in the recent past, has issued two forms of long-term indebtedness: General Airport Revenue Bonds (GARBs) and General Obligation Revenue Bonds (GORBs). Since 1976, GORBs have been issued which are backed by Commission revenues and the authority to levy any required taxes on the assessed valuation of the seven-county metropolitan area. In 1998, the Commission began to issue GARBs which are not backed by the Commission's ad volerum taxing power. Additionally, the Commission has agreed (pursuant to the terms of the Master Trust Indenture entered into by the Commission in connection with its issuance of GARBs) to collect rates, tolls, fees, rentals, and charges so that during each fiscal year the Net Revenues, together with any permitted transfer, will be equal to at least 125% of aggregate annual debt service on the outstanding Senior Lien GARBs and 110% for outstanding Subordinate Lien GARBs. (See Long Term Debt Section below.)

With regard to GORBs, the MAC is required by law to maintain Debt Service funds sufficient to bring the balance on hand in the Debt Service Account on October 10th of each year to an amount equal to all principal and interest to become due and payable from there to the end of the second following year. The Commission currently has no outstanding GORBs debt.

The following is the annual actual debt service funding requirements for the next five years for the GARB issues (does not include future bond issues):

January 1, 2018	\$ 122,900
January 1, 2019	\$ 134,083
January 1, 2020	\$ 133,960
January 1, 2021	\$ 127,790
January 1, 2022	\$ 127,695

#### Long-Term Debt

#### General Obligation Revenue Bonds and General Airport Revenue Bonds

The acquisition and construction of facilities at the airports operated by the Commission have been substantially financed by the issuance of Airport Improvement Bonds and GORBs (all of which have been defeased), Notes Payable, a revolving line of credit, and GARBs.

GORBs are general obligations of the Commission, payments of which are secured by the pledge of all operating revenues of the Commission. The Commission has the power to levy property taxes upon all taxable property in the seven county Metropolitan Area in order to pay debt service outstanding on GORBs. (These taxes, if levied, must be re-paid.)

The Commission has not levied taxes for the payment of debt service since 1969. Since then, Commission revenues have been sufficient to pay principal and interest due to Airport Improvement Bonds and GORBs. The Commission currently has available for issuance under the existing legislative authorization approximately \$55 million of GORBs.

The 1996 Minnesota State Legislature authorized the Commission to issue GARBs. These bonds may be secured by the pledge of all operating revenues of the Commission. The Commission's authority to issue additional GARBs is subject to an additional bonds test for future issuance of either its Senior Lien or Subordinate Lien GARBs. The additional bonds test is designed to demonstrate that the Commission will have the current and future ability to repay its debt. For Senior Lien GARBs, the additional bonds test requires the Commission to either show that historical revenues are at least equal to 1.1 times total expected Senior Lien debt service. For Subordinate Lien GARBs, the additional bonds test requires the additional bonds test requires are at least equal to 1.1 times total expected Senior Lien debt service. For Subordinate Lien GARBs, the additional bonds test requires the commission to either show that historical revenues are at least equal to 1.1 times total expected Senior Lien debt service. For Subordinate Lien GARBs, the additional bonds test requires the Commission to either show that historical revenues are at least equal to 1.1 times total expected Senior Lien debt service. For Subordinate Lien GARBs, the additional bonds test requires the Commission to either show that historical revenues are at least equal to 1.1 times total expected net revenues are expected to exceed 1.25 times total expected net revenues are expected to exceed 1.1 times total expected debt service or that projected net revenues are expected to exceed 1.1 times total expected debt service or that projected net revenues are expected to exceed 1.1 times total expected debt service.

The projected coverage ratio for 2018 on Senior Debt Obligations is 4.19x. With the optional coverage transfer, this figure is 4.44x. The overall projected coverage ratio is expected to be 1.92x and 2.04x with the optional coverage transfer.

#### Notes Payable

The Commission, from time to time, has financed certain pieces of equipment and certain capital improvement projects through the issuance of notes payable. The Commission utilizes this type of financing in order to recover a portion of the debt service via airline rates and charges. As of December 31, 2017, the Commission has \$47,191,000 notes payable outstanding.

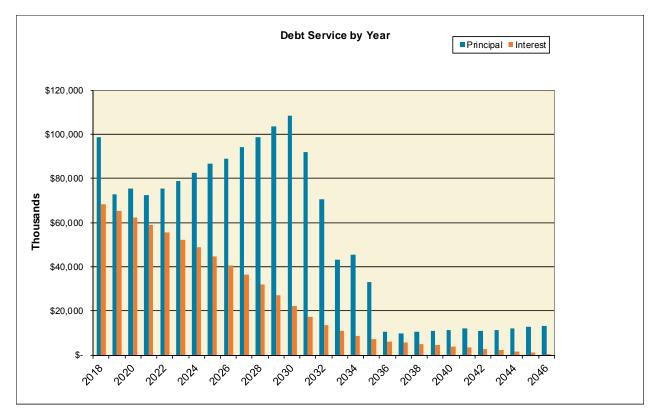
#### **Revolving Line of Credit**

The Commission previously utilized a Commercial Paper program to interim fund certain capital improvement projects. In May 2010, the direct pay letters of credit expired and the renewal cost was very expensive. In 2017, the Commission entered into a \$150 million Revolving Line of Credit to interim fund certain capital improvement projects. As of December 31, 2017, the Commission has utilized \$38,020,000 of the line of credit.

The table below shows future debt requirements for <u>existing</u> debt on an annual calendar year basis after December 31, 2017 for the remaining terms. The following chart does not take into consideration any future bond issues or notes payable issued after 2017. The dollars shown are in thousands.

		General Airpo	ort				
(\$ = 000)	Notes/Line of	Revenue		Total			Total
	Credit	Bonds	Oı	utstanding	Т	otal All	Principal
Year(s)	<b>Principal</b>	<b>Principal</b>	I	Principal	l	nterest	& Interest
2018	41,379	55,390	\$	96,769		68,088	164,857
2019	3,382	69,325	\$	72,707		65,270	137,977
2020	3,210	72,275	\$	75,485		62,133	137,618
2021	3,056	69,260	\$	72,316		58,925	131,241
2022	3,032	72,420	\$	75,452		55,623	131,075
2023	2,618	76,140	\$	78,758		52,144	130,902
2024	2,736	79,645	\$	82,381		48,567	130,948
2025	2,352	84,375	\$	86,727		44,719	131,446
2026	2,073	86,985	\$	89,058		40,637	129,695
2027	1,645	92,320	\$	93,965		36,376	130,341
2028	1,837	96,725	\$	98,562		31,841	130,403
2029	1,996	101,485	\$	103,481		27,059	130,540
2030	2,125	106,380	\$	108,505		22,027	130,532
2031	2,258	89,500	\$	91,758		17,262	109,020
2032	2,400	68,170	\$	70,570		13,419	83,989
2033	2,547	40,765	\$	43,312		10,787	54,099
2034	2,702	42,695	\$	45,397		8,785	54,182
2035	2,866	30,270	\$	33,136		6,989	40,125
2036	997	9,395	\$	10,392		5,975	16,367
2037	-	9,860	\$	9,860		5,486	15,346
2038	-	10,350	\$	10,350		4,981	15,331
2039	-	10,870	\$	10,870		4,450	15,320
2040	-	11,415	\$	11,415		3,893	15,308
2041	-	11,990	\$	11,990		3,308	15,298
2042	-	10,890	\$	10,890		2,736	13,626
2043	-	11,430	\$	11,430		2,178	13,608
2044	-	12,005	\$	12,005		1,592	13,597
2045	-	12,605	\$	12,605		977	13,582
2046	-	13,235	\$	13,235		331	13,566
	\$ 85,211	\$ 1,458,170	\$	1,543,381	\$	706,558	\$ 2,249,939

The following chart shows expected future debt principal and interest:



The following table provides summary information for all current long-term debt.

Dende Deveble, due carielly		Original	<b>F</b> ire al		ing as of
Bonds Payable, due serially (\$ = 000)	Issue Date	Original <u>Amount</u>	Final <u>Payment In</u>	2018 <u>2018</u>	End <u>2017</u>
General Airport Revenue Bonds:					
2009 Series A - 2.0-5.0%	11/10/09	23,075	2022	9,660	11,795
2009 Series B - 4.0-5.0%	11/10/09	128,835	2022	57,495	69,365
2010 Series A - 4.00-5.00%	08/10/10	62,210	2035	62,210	62,210
2010 Series B - 3.00-5.00%	08/10/10	73,475	2028	55,840	59,895
2010 Series C - 3.00-5.00%	11/10/10	21,600	2024	4,450	5,085
2010 Series D - 4.00-5.00%	11/10/10	68,790	2024	31,350	35,605
2011 Series A - 3.50-5.00%	11/02/11	52,015	2025	43,520	47,870
2012 Series A - 0.46-2.755%	11/20/12	39,770	2020	17,660	23,310
2012 Series B - 5.00%	11/20/12	42,015	2031	42,015	42,015
2014 Series A - 2.00-5.00%	10/08/14	217,790	2035	209,900	214,520
2014 Series B - 2.00-5.00%	10/08/14	46,590	2026	38,840	42,740
2016 Series A - 3.00-5.00%	10/04/16	330,690	2032	330,690	330,690
2016 Series B - 3.00-5.00%	10/04/16	152,190	2024	152,190	152,190
2016 Series C - 2.00-5.00%	12/20/16	207,250	2046	207,250	207,250
2016 Series D - 2.00-5.00%	12/20/16	23,410	2041	23,410	23,410
2016 Series E - 2.00-5.00%	12/20/16	171,690	2034	171,690	171,690
Total General Airport Revenue Bond	s			\$ 1,458,170	\$ 1,499,640
TOTAL BONDS OUTSTANDING				\$ 1,458,170	\$ 1,499,640
NOTES PAYABLE & REVOLVING	LINE OF CREDIT			\$ 106,044	\$ 85,211
TOTAL LONG TERM BONDS AND	NOTES PAYABL	E		\$ 1,564,214	\$ 1.584.851

### Bond Refundings

On October 4, 2016, the Commission issued \$482,880,000 of General Airport Revenue Bonds Series 2016A and 2016B to refund the General Airport Revenue Bonds Series 2007A and 2007B and were called on January 1, 2017.

As a result of the October 4, 2016 refunding, the Commission reduced its total debt service requirements by \$164,340,453, which resulted in an economic gain (the difference between the present values of the debt service payments on the old and new debt) in the amount of \$124,290,794.

The Commission, along with its financial advisors, regularly reviews the Commission debt structure to look for refunding candidates provided that they meet the 3% net present value savings.

The Commission has no Derivative/Swap debt nor has there ever been any instrument of this type in the Debt Portfolio.

#### New Issues

The most recent new money bond issue the Commission issued was on December 20, 2016. The MAC issued \$207,250,000 General Airport Revenue Bonds Series 2016C, \$23,410,000 General Airport Revenue Bonds Series 2016D and \$171,690,000 General Airport Revenue Bonds Series 2016E.

The \$23,410,000 General Airport Revenue Bonds Series 2016D proceeds were used to repay a portion of the revolving line of credit used in connection with the new 4 Gate Expansion at Terminal 2-Humphrey.

A portion of the proceeds of the General Airport Revenue Bonds Series 2016C Bonds and the General Airport Revenue Bonds Series 2016E Bonds will be used to finance the design, construction, improvement and equipping of the following projects at the Airport:

<u>New Parking Garage</u>. The Commission will construct a new, 11-level, parking structure adjacent to the existing parking facilities at Terminal 1-Lindbergh (the "New Parking Garage"). The garage will provide public parking on levels 6-11 (approximately 3,300 parking spaces), with rental car parking facilities on levels 2-5. A new rental car customer service building and a new transit center will be constructed on the ground level of the parking structure. This project also includes extending the underground tram corridor (although not the tram), vertical circulation building, entrance helix, exit helix, associated utilities, lighting, landscaping, signage, roadways, and security features, and relocating the rental car ready/return areas from the existing parking garages at Terminal 1-Lindbergh. The estimated cost of the New Parking Garage is \$293 million.

<u>Roadway & Plaza Relocation</u>. In connection with the construction of the New Parking Garage, the Commission relocated a major portion of the outbound roadway and associated utilities at Terminal 1-Lindbergh, modified the entrance to the existing public facilities at Terminal 1-Lindbergh and constructed a new exit plaza to accommodate the New Parking Garage. The cost of this portion of the Series 2016C/E Project is \$100 million.

Parking Management Building and Revenue Control System. The new exit plaza includes a new parking management building, revenue control system, exit booths with associated canopy, electrical and mechanical systems, fiber optic cabling, and landscaping. It will be constructed in connection with the construction of the New Parking Garage. The estimated cost of this portion of the Series 2016C/E Project is \$24 million.

<u>Other Components of Series 2016C/E Projects</u>. Certain other projects will be undertaken in connection with the construction of the New Parking Garage, including certain grade separation projects and a new cargo and storage building to be leased by Delta Airlines. The estimated cost of this portion of the Series 2016C/E Project is \$26 million.

The Series 2016C/E Projects are expected to be completed by the summer of 2020.

The Capital Improvement Program approved by the Commission in December 2017 for the period 2018-2024 does include funding of projects with a new long-term debt issue. The Commission anticipates a new long-term debt issue in the \$100 million range primarily for Terminal 1-Lindbergh, Public Safety Facility and Parking Facility improvements.

#### Bond Ratings

The Commission has maintained excellent ratings for many years. The Commission is one of the few airport authorities with an AA- rating. Most airports are in the A rating category. The Commission's bond ratings as

of December 31, 2017 are as follows:

	Moody's	Standard & Poors	Fitch Ratings
General Obligation Bonds	Aaa	AAA	AAA
General Airport Revenue Bonds	N/A	AA	AA-

Standard & Poors bond ratings range from AAA (highest quality) to C (lowest quality) for long-term obligations. Ratings from 'AA' to 'CCC' may be modified by the addition of a plus (+) or minus (-) sign to show relative standing within the major rating categories. The ratings for the Commission's long-term debt are defined below:

- 'AAA' Extremely strong capacity to meet financial commitments. Highest Rating.
- 'AA' Very strong capacity to meet financial commitments.

Fitch Ratings also uses a rating system similar to that of Standard & Poors. Ratings from 'AAA' to 'CCC' may be modified by the addition of a plus (+) or minus (-) sign to show relative standing within the major rating categories.

Moody's bond ratings range from Aaa (highest quality) to C (lowest quality) for long term obligations. Moody's applies numerical modifiers 1-high, 2-mid, and 3-low in each generic rating classification from Aaa to C. The bond rating process is a comprehensive analysis of the Commission's financial practices and performance. Forecasts of future performance and projected long-term planning practices are also reviewed. The following data are typically requested and analyzed by the rating agencies:

- Trends of demographic/economic information
- Capital Improvement Program
- Budget documents/Performance to Budget
- Financial audits/Performance

- Airline industry
- Major employers in the area
- Diversity of local economy
- Financial policies and practices

The Statistics & Informative Facts section shows statistics commonly analyzed by the rating agencies.

#### Sources and Uses of Funds

The Debt Service Budget is shown below.

2018 DEBT SERVICE BUDGET												
(\$=000)												
		2016		2017		2017		2018		2019		2020
		Actual	E	stimate		<u>Budget</u>		Budget	P	rojected	P	rojected
January 1 Balance	\$	227,487	\$	196,054	\$	251,930	\$	219,629	\$	226,354	\$	270,369
Source Of Funds:												
Transfer from Operating Fund		89,675		91,106		84,917		102,278		108,266		101,773
Transfer from PFCs <sup>1</sup>		31,522		27,454		27,533		26,244		26,237		26,239
Interest earnings <sup>2</sup>		1,703		1,898		985		1,103		1,336		1,658
Bond Proceeds <sup>3</sup>		643,547		-		-		-		42,259		-
Total Sources Of Funds	\$	766,447	\$	120,458	\$	113,435	\$	129,625	\$	178,098	\$	129,670
Uses Of Funds												
Bond Refundings	\$	(645,380)	\$	-	\$	-	\$	-	\$	-	\$	-
Rebate Payment		-		-		-		-		-		-
Total Principal/Interest Paid		(152,500)		(96,883)		(122,557)		(122,900)		(134,083)		(151,470)
Ending Balance	\$	196,054	\$	219,629	<u>\$</u>	242,808	<u>\$</u>	226,354	<u>\$</u>	270,369	<u>\$</u>	248,569
<sup>1</sup> Used to pay existing debt which	<sup>1</sup> Used to pay existing debt which was formerly paid for with operating funds.											

<sup>2</sup> Interest Rate Assumed 1.00% for the entire period.

<sup>3</sup> Includes Debt Reserve and Capitalized Interest.

#### Sources of Funds

Each source of funding is discussed below.

The transfer from the operating fund occurs each October 10<sup>th</sup> for General Obligation Revenue Bonds. The Commission currently has no GORBs outstanding. Therefore there is no funding requirement during 2016-2020. For General Airport Revenue Bonds, the transfer occurs in late June and December each year. This transfer will fluctuate due to interest earnings, refundings, and new issues.

The Passenger Facility Charge (PFC) transfer represents the use of PFCs to pay a portion of existing debt beginning in 2003 for various general airport revenue bonds instead of operating funds. This transfer will fluctuate due to interest earnings, scheduled increases in annual debt service amounts, refundings and new issues.

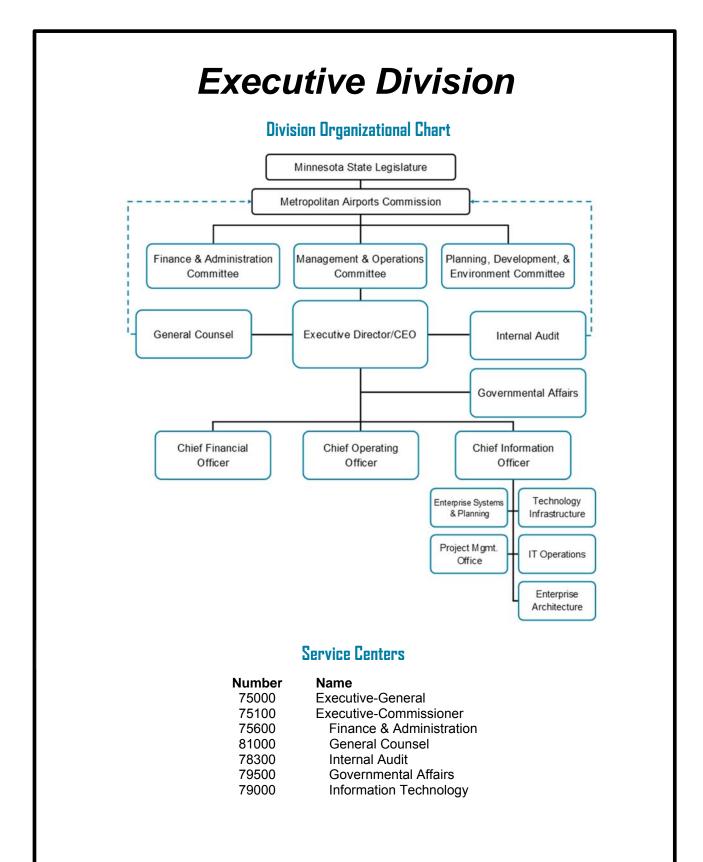
Interest earnings are assumed at 1.0% for 2018-20. In projecting interest income, the Commission typically takes a conservative approach.

Bond proceeds are made up of reserves, issuance costs, and capitalized interest. The proceeds in 2016 represent the refunding of General Airport Revenue Bonds Series 2007 and new money issues in 2016 and 2019. The amounts shown in the prior table represents the required debt service reserve and capitalized interest.

#### Uses of Funds

Disbursements represent principal and interest payments made during the year by bond series as well as rebate payments due on excess investment interest earnings, if any, on bond issues. In 2016, the Commission refunded General Airport Revenue Bonds Series 2007. These refundings accounted for the increase in uses in 2016. In 2019 increases in principal and interest payments are primarily due to principal payments starting from the new money 2016 bond issues.





#### Notations to Service Center Summaries:

- Variance (dollars and %) is computed between 2017 Budget and 2018 Budget amounts
- Explanations for the variances are based upon the 2017 Budget and 2018 Budget amounts
- Negative variances, in most cases, are the result of reductions in one-time expenses or budget reductions
- The FTE count in each service center is as of January 1, 2018. The FTE budget was calculated in 2017 and may not reflect the budgeted FTE count for some service centers.
- Significant changes were made to the organization staff, including the addition of two divisions and the addition of several vice president roles. No changes were made to the service center structure. Therefore, presented at the beginning of each division within this section are the division's organizational chart as approved by the commission, as well as a list of the service centers that are managed within that division.

# **EXECUTIVE - GENERAL**

The Executive-General service center is responsible for the overall administration of the Metropolitan Airports Commission and for the implementation of all Commission policies. The Office of the Executive Director/CEO is directly accountable to the Board of Commissioners for the safe and efficient operation of the seven airports under the Commission's jurisdiction. Responsibilities include the coordination, direction, and implementation of programs and services of the Commission, as well as external relations with those regulatory agencies and governmental bodies concerned with the operation and administration of the Commission.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	570,849	540,126	506,857	(33,269)	-6.2%
Administrative Expenses	197,262	192,925	192,925	0	0.0%
Professional Services	1,500			0	0.0%
Utilities	2,334	1,800	1,800	0	0.0%
Operating Services/Expenses	20,662	800		(800)	-100.0%
Maintenance				0	0.0%
Other	2,674			0	0.0%
Total Budget	795,282	735,651	701,582	(34,069)	-4.6%
Full-time Equivalent (FTE) Total	3	3	3		

#### **HIGHLIGHTS OF BUDGET**

Personnel

The decrease in Personnel is attributable to vacancies due to employee turnover.

#### 2018 SERVICE CENTER OBJECTIVE

Organizational Strategic Goal:

Maintain our competitive cost structure while maintaining our airports' economic benefit

Organizational Strategic Objective: Maintain the MAC's competitive cost structure

### SERVICE CENTER PERFORMANCE MEASURES



Airport Service Quality Survey Score: 5-point scale (5 = excellent, 1 = poor)

# **EXECUTIVE - COMMISSIONER**

The responsibilities of the Board of Commissioners are: 1) promoting public welfare; 2) promoting national, international, state, and local air transportation; 3) promoting the safe, efficient, and economical handling of air commerce both nationally and internationally, and to developing the potential of the metropolitan area as an aviation center, providing for the most economical and effective use of aeronautical facilities and services; and 4) assuring metropolitan area residents that the environmental impact from air transportation will be minimized by promoting the overall goals of the State's environmental policies, minimizing the public's exposure to noise, and pursuit of the highest level of safety at all Commission airports.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	48,464	48,825	49,325	500	1.0%
Administrative Expenses	39,281	35,900	33,700	(2,200)	-6.1%
Professional Services				0	0.0%
Utilities	390	540	840	300	55.6%
Operating Services/Expenses				0	0.0%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	88,135	85,265	83,865	(1,400)	-1.6%
Full-time Equivalent (FTE) Total	0.5	0.5	0.5		

#### **HIGHLIGHTS OF BUDGET**

• Utilities

The Utilities increase is a result of increased cell phone expenses for Commissioners.

# FINANCE & ADMINISTRATION

Finance & Administration is responsible for overseeing the implementation of the Commission's financial policies, strategic financial planning and analysis, revenue development, commercial management, airline affairs, and the establishment of good fiscal and budgetary practices. The Commission's conservative fiscal policies provide funding as required for operating and capital expenditures for its system of airports. The policy also allows for the establishment of good business practices to optimize the generation of revenues, both aeronautical and non-aeronautical. This division also oversees and guides the strategic implementation and management of the organization's Live Well, Stay Well Program and Risk/Insurance/Safety Department/Programs. The Chief Financial Officer is the staff liaison to the Commission's Finance & Administration Committee.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	226,238	230,713	373,630	142,917	61.9%
Administrative Expenses	2,706	6,250	6,025	(225)	-3.6%
Professional Services		26,500	35,500	9,000	34.0%
Utilities	540	540	1,404	864	160.0%
Operating Services/Expenses				0	0.0%
Maintenance				0	0.0%
Other		1,200	700	(500)	-41.7%
Total Budget	229,483	265,203	417,259	152,056	57.3%
Full-time Equivalent (FTE) Total	2	2	3		

#### **HIGHLIGHTS OF BUDGET**

Personnel	In 2017 a new position, Vice President, Finance & Revenue Development was created. This position reports directly to the CFO and is new to the division.
Professional Services	This increase is the result of final modeling of the airline calculation and potential help in the airline negotiations.
• Utilities	The added costs are the result of the new position (Vice President, Finance & Revenue Development) cell phone expenditures.
Other	The reduction is due to a one-time expense in 2017 for office furniture.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

**Objective:** Update and complete funding analysis for the 2017-2023 Capital Improvement Program (CIP) while maintaining our Cost Per Enplaned Passenger and Bond Ratings

#### 2018 SERVICE CENTER OBJECTIVE

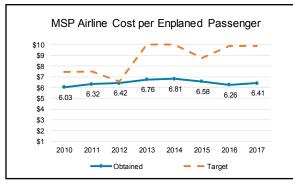
Objective:	Update and complete funding analysis for the 2018-2024 Capital Improvement Program (CIP) in conjunction with the extension of the Airline Agreement while maintaining our Cost Per Enplaned Passenger and bond ratings
Organizational Strategic Goal:	Maintain our competitive cost structure while maintaining our airports' economic benefit
Organizational Strategic Objective:	Maintain the MAC's competitive cost structure

Results: Funding analysis for the 2017-2023 Capital Improvement Program (CIP) was completed.

#### SERVICE CENTER PERFORMANCE MEASURES

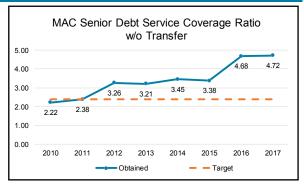


MSP's Airline Cost Per Enplaned Passenger rank for large hub airports\*



Airline cost per enplaned passenger\*

\*These graphs contain target lines that indicate a maximum target value. Measures are met successfully when the actual values are below the target values.



Net revenues divided by debt

# GENERAL COUNSEL

General Counsel is responsible for providing legal advice and representation to the Commission, preparing legal documents, and monitoring/coordinating outside legal counsel.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	957,073	1,021,402	1,130,235	108,833	10.7%
Administrative Expenses	47,690	53,072	56,450	3,378	6.4%
Professional Services	877,204	799,000	799,000	0	0.0%
Utilities	4,980	4,680	4,800	120	2.6%
Operating Services/Expenses	541	887	1,420	533	60.1%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	1,887,488	1,879,041	1,991,905	112,864	6.0%
Full-time Equivalent (FTE) Total	8.5	9	9		

#### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel Expenses is attributable to one staff member increasing from .5 FTE (actual) to 1 FTE (actual), as well as wage structure adjustments and step increases.
Administrative Expenses	Administrative Expenses increased to properly reflect average spending in most areas.
Operating Services/Expenses	Operating Services increased to properly reflect average spending in most areas.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

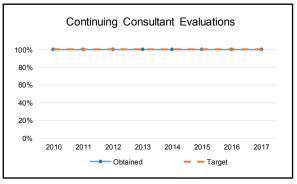
Objective:Provide legal advice, and draft and negotiate documents related to the concessions processResults:Advised staff and drafted and negotiated documents regarding the Phase II concessions<br/>Request for Proposals process, the Rental Auto Request for Bid process, and the awarded<br/>concessions agreements including the termination of previous generation concessions<br/>agreements, as well as other miscellaneous lease amendment issues.

#### 2018 SERVICE CENTER OBJECTIVE

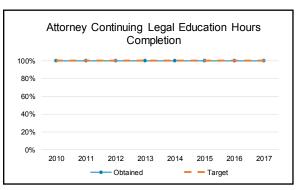
Objective:	Provide legal advice, strategize, negotiate, and draft amendments to
	airline operating agreements
Organizational Strategic Goal:	Maintain our competitive cost structure while maintaining our airports'
	economic benefit

Organizational Strategic Objective: Maintain the MAC's competitive cost structure

### SERVICE CENTER PERFORMANCE MEASURES



Percentage of continuing consultant evaluations completed



Percentage of attorneys completing an average of 15 CLE hours

# INTERNAL AUDIT

Internal Audit provides an independent and objective assurance and consulting service that is guided by a philosophy of adding value by improving the operations of the Metropolitan Airports Commission. The department assists the MAC in accomplishing its objectives by bringing a systematic and disciplined approach to evaluate and improve the effectiveness of the organization's risk management, internal control, and governance processes.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	438,089	449,931	444,766	(5,165)	-1.1%
Administrative Expenses	3,849	7,550	7,950	400	5.3%
Professional Services				0	0.0%
Utilities	540	540	540	0	0.0%
Operating Services/Expenses	406			0	0.0%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	442,885	458,021	453,256	(4,765)	-1.0%
Full-time Equivalent (FTE) Total	4	4	4		

#### **HIGHLIGHTS OF BUDGET**

• Personnel

Administrative Expenses

The decrease in Personnel is attributable to vacancies due to employee turnover and changes in step levels for positions with employee turnover.

The increase in Administrative Expenses is attributable to the increased cost in the Office Supplies & Materials category, particularly for printer toner cartridges.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

**Objective:** Implement the Commission-approved Internal Audit Plan for 2017; issue quarterly reports to the Commission that detail testing processes and results; report audit findings and recommend process improvements for Commission approval

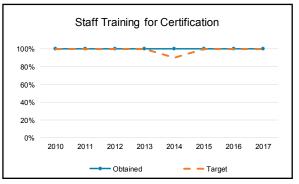
**Results:** The Audit Plan was implemented as scheduled and the following reports were presented: MAC Continuous Audit Report-2017 3rd Quarter; and Automatic License Plat Reader (ALPR) Audit. Results for Q4 2017 Continuous Audit testing will be issued in Q2 2018.

#### 2018 SERVICE CENTER OBJECTIVE

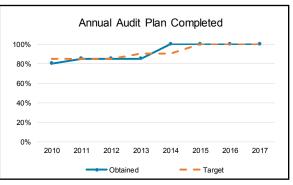
Objective:	Implement the Commission-approved Internal Audit Plan for 2018; issue quarterly reports to the Commission that detail testing processes and results; report audit findings and recommend process improvements for Commission approval
Organizational Strategic Goal:	Maintain our competitive cost structure while maintaining our airports' economic benefit
Organizational Strategic Objective:	Maintain the MAC's competitive cost structure

Service Center Summaries

# SERVICE CENTER PERFORMANCE MEASURES



Percentage of required staff training completed for certification maintenance



Percentage of projects in plan completed

# **GOVERNMENTAL AFFAIRS**

Governmental Affairs provides oversight and management of all MAC state and federal legislative issues. The service center monitors and assists in the development of legislative policies that may have an impact on the MAC's goals and objectives. Governmental Affairs staff serve as a first point of contact for federal, state, and local elected officials when they are working on MAC-related issues.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	152,063	186,816	190,731	3,915	2.1%
Administrative Expenses	59,206	65,845	67,915	2,070	3.1%
Professional Services	163,910	207,350	207,350	0	0.0%
Utilities	1,137	840	1,300	460	54.8%
Operating Services/Expenses	107		110	110	100.0%
Maintenance				0	0.0%
Other	1,538	4,300	4,000	(300)	-7.0%
Total Budget	377,960	465,151	471,406	6,255	1.3%
Full-time Equivalent (FTE) Total	1.5	1.5	1.5		

#### **HIGHLIGHTS OF BUDGET**

Personnel

The increase in Personnel is attributable to wage structure adjustments and step increases.

• Utilities The 2018 budget for Utilities was increased to align with the 2017 actual expended amount, which includes both monthly cell phone stipends and international cell phone charges for business usage during MAC-related travel.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

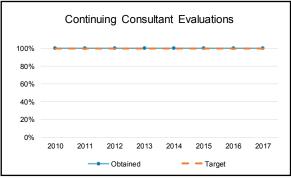
Objective:Enhance the MAC's presence in the State Chamber of CommerceResults:The State Chamber and Minnesota Business Partnership partnered with the MAC and the<br/>Airport Foundation MSP on the annual State of the Airport luncheon, including sending invitations<br/>to their membership.

#### 2018 SERVICE CENTER OBJECTIVE

Objective:	Work with Greater Minnesota airports to drive state and federal policies
	that are beneficial to both Minneapolis-St. Paul International Airport and
	the entire state system of airports
Organizational Strategic Goal:	Grow and enhance the narrative

Organizational Strategic Objective: Lead conversations on strategic topics with stakeholders

# SERVICE CENTER PERFORMANCE MEASURES



Percentage of evaluations for legislative services consultants completed

# **INFORMATION TECHNOLOGY**

Information Technology (IT) provides leadership and direction to the MAC in the areas of information systems and technology. Responsibilities include reviewing and approving systems, technology plans, budgets, and purchases. IT works with all MAC service centers, airport partners, and airport customers in analyzing needs and implementing business solutions. The work includes analysis, design, selection, acquisition, installation, documentation and support of hardware, applications, infrastructure systems, and technologies.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	3,140,606	3,938,890	4,406,368	467,478	11.9%
Administrative Expenses	336,837	264,163	310,163	46,000	17.4%
Professional Services	1,188,179	958,600	1,105,600	147,000	15.3%
Utilities	333,571	348,050	348,050	0	0.0%
Operating Services/Expenses	4,390,898	6,210,594	6,763,518	552,924	8.9%
Maintenance		20,000	20,000	0	0.0%
Other	1,384,643	1,145,000	1,145,000	0	0.0%
Total Budget	10,774,734	12,885,297	14,098,699	1,213,402	9.4%
Full-time Equivalent (FTE) Total	32	38	45		

#### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases, as well as the addition of FTEs.
Administrative Expenses	The increase in Administrative Expenses is attributable to extended use of information resources and best practice research to assist with new IT program creation.
Professional Services	The increase in Professional Services is attributable to additional software consulting needs, including support of iVISN, cloud migration, PCI and enterprise architecture.
Operating Services/Expenses	The Operating Services/Expenses increase is attributable to the transfer of software support contract from other units and service agreement cost increases for key IT programs.

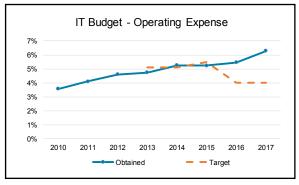
### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:	Implement a service-oriented Information Technology Service Management toolset that integrates incident and request management while enabling self-service capabilities enterprise- wide
Results:	At the close of Q4, ServiceNow implementation was complete, IT staff were converted to the new platform as expected, and the MAC-wide launch was completed. This platform represents an online one-stop shop for IT support and need engagement. 2018 will be dedicated to maturing and enhancing its use, with it eventually becoming a service engagement platform for the enterprise.

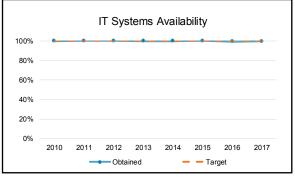
#### 2018 SERVICE CENTER OBJECTIVE

Objective:	Enable Enterprise Geographical Information Systems (eGIS) for the
	MAC, positioning our organization to leverage a common set of
	geospatial assets for operational and development efficiency
Organizational Strategic Goal:	Innovate through opportunities in technology and sustainability
Organizational Strategic Objective	e: Modernize and accelerate technology use, enabling enterprise solutions

### SERVICE CENTER PERFORMANCE MEASURES

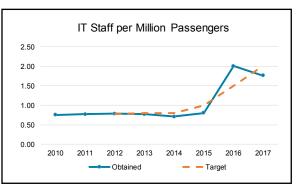


Percent of the MAC's total operating expense represented by the IT budget



Percent of time all systems are available, outside of unplanned downtime

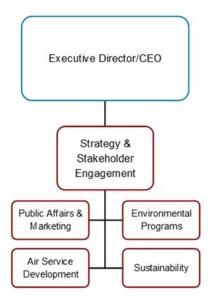
\*This graph contains a target line that indicates a maximum target value. The measures is met successfully when the actual value is below the target values.



Ratio of 1 IT staff person to 1 million passengers

# Strategy & Stakeholder Engagement Division

**Division Organizational Chart** 



# Service Centers

Number	Name
76000	Public Affairs & Marketing
85000	Environment-General
85100	Environmental Affairs
85300	Aviation Noise Program
76100	Air Service Business Development
76200	Sustainability & Strategy

#### Notations to Service Center Summaries:

- Variance (dollars and %) is computed between 2017 Budget and 2018 Budget amounts
- Explanations for the variances are based upon the 2017 Budget and 2018 Budget amounts
- Negative variances, in most cases, are the result of reductions in one-time expenses or budget reductions
- The FTE count in each service center is as of January 1, 2018. The FTE budget was calculated in 2017 and may not reflect the budgeted FTE count for some service centers.
- Significant changes were made to the organization staff, including the addition of two divisions and the addition of several vice president roles. No changes were made to the service center structure. Therefore, presented at the beginning of each division within this section are the division's organizational chart as approved by the commission, as well as a list of the service centers that are managed within that division.

## PUBLIC AFFAIRS & MARKETING

Public Affairs & Marketing (PAM) builds public support for the MAC through media relations, public information, outreach programs, marketing, and advertising; enhances the airport experience by providing information to travelers; and increases MAC revenues through marketing of MAC facilities, parking, and food and retail concessions. In addition, PAM identifies, monitors, and helps address issues that may impact the MAC, communicates airport benefits and issues to surrounding communities, and enhances customer service and the MSP brand by communicating with travelers and tenants. PAM provides information to MAC staff and Commissioners for their use in working to achieve organizational goals, conducts advertising and marketing campaigns aimed at increasing MAC revenues, and continually promotes airport services. In addition, the PAM operates the Information and Paging Office, providing informational services to our customers 14 hours a day, 365 days a year.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	872,842	968,774	1,020,369	51,595	5.3%
Administrative Expenses	187,044	287,114	267,268	(19,846)	-6.9%
Professional Services	251,661	393,000	449,600	56,600	14.4%
Utilities	6,428	6,916	8,100	1,184	17.1%
Operating Services/Expenses	452,434	505,840	615,800	109,960	21.7%
Maintenance	12,831	17,700	18,000	300	1.7%
Other	28,386	17,550	28,000	10,450	59.5%
Total Budget	1,811,625	2,196,894	2,407,137	210,243	9.6%
Full-time Equivalent (FTE) Total	10	10	10		

#### **HIGHLIGHTS OF BUDGET**

•	Personnel	Information and Paging Office provisional staffing needs increased due to fully integrated real-time customer texting communications as well as a live-chat feature on mspairport.com. The increase is also attributable to wage structure adjustments and step increases.
•	Administrative Expenses	Spending in this category is down largely due to movement of some technology-based information sources to the Information Technology budget.
•	Professional Services	The increase provides more funds for commercial photography, assistance for video shoots, and support for the new MAC website and digital directories that bring the budget in line with actual expenditures as our communications strategies and techniques evolve. Additional funds also address the significant need for professional consultation to guide research, planning, and implementation related to integrating communications and marketing related to our airports, air service development, sustainability and environmental issues, strategic planning, and community engagement.
•	Utilities	The utilities increase is for phone stipends for new FTEs.
•	Operating Services/Expenses	The increase in Operating Services/Expenses is driven by expenses related to Super Bowl LII and increased dollars for advertising and sponsorships to support the MAC's strategic engagement goal and increase the MAC's visibility in the metropolitan community.
•	Other	The increase in the "Other" line brings the budget for rental of audio/ visual and lighting equipment for the annual State of the Airport luncheon in line with actual costs and provides funding for cubicle space for new FTEs.

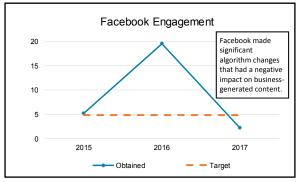
#### 2017 SERVICE CENTER OBJECTIVE RESULTS

- **Objective:** Communicate externally and internally the results of the MSP Airport Economic Impact Study conducted in 2017
- **Results:** MAC Public Affairs & Marketing continued to promote the results of the MSP Airport Economic Impact Study in news distributions, presentations, and ads within MSP's terminals.

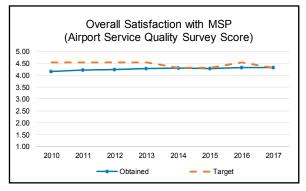
#### 2018 SERVICE CENTER OBJECTIVE

Objective:	Provide marketing analytics to support efforts by the Finance and
	Revenue Development Division and Landside to explore variable parking pricing and packaging, and to market changes in parking options
Organizational Strategic Goal:	Maintain our competitive cost structure while maintaining our airports' economic benefit
Organizational Strategic Objective	: Grow non-aeronautical revenues in concessions, parking, and property development

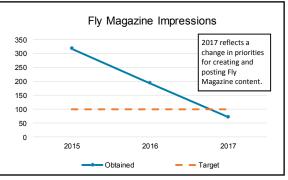
#### SERVICE CENTER PERFORMANCE MEASURES



Number of Facebook fans who like, share, or comment on a MAC post, in millions



Number of people subscribing for notices and information through the MAC's subscription news and notification service, in thousands



Number of impressions garnered by Fly magazine, in thousands

## ENVIRONMENT-GENERAL

Environment-General's vision is to facilitate environmental performance and commitment beyond compliance. Its mission is to support aviation through advancement of innovative and responsible environmental stewardship. Environment facilitates compliance with state and federal environmental regulations at MAC-owned facilities; manages aircraft noise issues and navigation programs; leads environmental review processes in compliance with the Minnesota and National Environmental Policy Acts. Efforts aligned with the MAC's sustainability program including recycling, organics, and greenhouse gas emission management and reduction. Environment maintains an effective working relationship with state and local government. It supports activities to establish sound strategies to reduce environmental impacts from aviation-related activities.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	356,129	474,459	459,396	(15,063)	-3.2%
Administrative Expenses	11,228	19,900	20,900	1,000	5.0%
Professional Services	79,999	207,000	297,000	90,000	43.5%
Utilities	10,878	6,445	2,090	(4,355)	-67.6%
Operating Services/Expenses	39,439			0	0.0%
Maintenance				0	0.0%
Other	1,117			0	0.0%
Total Budget	498,791	707,804	779,386	71,582	10.1%
Full-time Equivalent (FTE) Total	3	4	4		

#### **HIGHLIGHTS OF BUDGET**

The decrease in Personnel is attributable to the realignment of the budget to wages for current personnel.

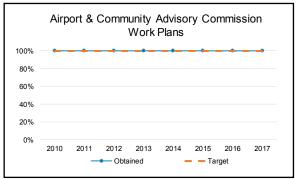
- Administrative Expenses The increase in Administrative Services expense is driven by an increase in office supplies.
- Professional Services
   The increase in Professional Services expense is driven by increasing strategic planning activities and expanded stakeholder communication efforts that include the integration of the MAC organization, noise, environment, and sustainability websites.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

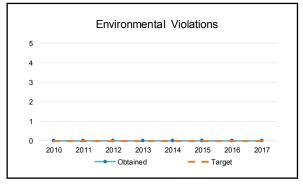
Objective:	Expand the MAC's commitment to air quality and greenhouse gas emissions reductions by
	establishing a program focused on developing and implementing strategies to reduce air quality
	impacts and greenhouse gas emissions, and the evaluation of climate adaptation
Results	The MAC successfully achieved Level 2 continuing under the Airport Carbon Accreditation

**Results:** The MAC successfully achieved Level 2 cortication under the Airport Carbon Accreditation Program in 2017. As part of this achievement, a Carbon Management Plan was developed for MSP, providing a strategy that includes specific projects and a carbon reduction goal that targets reduced air quality impacts and greenhouse gas emissions.

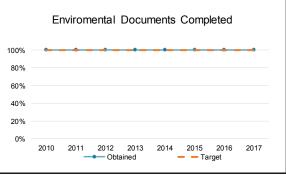
Objective:	Provide for the proactive maintenance and execution of the
	Environment Department Strategic Plan in alignment with enterprise
	strategies to help the organization achieve its goals effectively
Organizational Strategic Goal:	Innovate through opportunities in technology and sustainability
Organizational Strategic Objective	: Integrate sustainability into our culture



Percentage of advisory commission work plans completed



Total number of environmental violations assessed against the MAC



Percentage of environmental documents required for support of MAC activities completed

## ENVIRONMENTAL AFFAIRS

Environmental Affairs facilitates compliance with local, state, and federal environmental regulations at MACowned facilities. Environmental Affairs maintains programs that document environmental impacts related to construction projects, complies with stormwater and soil management requirements, administers underground and aboveground storage tank rules, monitors and report on air quality and hazardous waste management, implements pollution prevention programs, and performs environmental investigations and audits.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	319,450	316,942	405,360	88,418	27.9%
Administrative Expenses	5,801	7,780	8,055	275	3.5%
Professional Services	334,261	559,400	587,600	28,200	5.0%
Utilities	3,153	3,000	3,200	200	6.7%
Operating Services/Expenses	1,496,750	1,592,650	1,589,900	(2,750)	-0.2%
Maintenance				0	0.0%
Other	63,163	21,150	19,850	(1,300)	-6.1%
Total Budget	2,222,577	2,500,922	2,613,965	113,043	4.5%
Full-time Equivalent (FTE) Total	3	3	4		

#### **HIGHLIGHTS OF BUDGET**

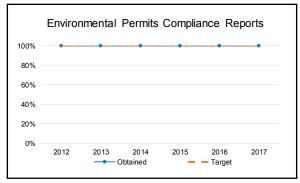
Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases, as well as the addition of FTEs.
Administrative Expenses	The increase in Administrative Expenses is attributable to additional travel and increased subscription costs.
Professional Services	The increase is driven by an addition of funds to complete the Waste Management Program Assessment started in 2017, to review/report on Water Conservation opportunities for the MSP campus, and to perform an environmental compliance program audit.
Utilities	Utilities expense increased as a result of an additional employee cell phone stipend.
• Other	This decrease is attributable to reallocating costs for environmental licenses to appropriate cost centers.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:	Continue to reduce airport environmental impacts by minimizing water quality and consumption impacts through the development of a Green Stormwater Infrastructure strategy/plan for the MAC's system of airports
Results:	During Q4, a final Green Stormwater Infrastructure (GSI) report was drafted. The report included a GSI implementation plan, which provides a framework for implementing the GSI standard into the MAC Design and Construction Standards, and provides guidance to the MAC on when,

### where, and how GSI could be implemented on MAC development projects.

Objective:	Continue to reduce MSP environmental impacts by developing and
	implementing a plan to enhance solid waste, recycling, and organics
	management through a Waste Management Program Assessment
Organizational Strategic Goal:	Innovate through opportunities in technology and sustainability
Organizational Strategic Objective	: Integrate sustainability into our culture



Percentage of regularly-scheduled compliance reports submitted to regulating agenies

## **AVIATION NOISE PROGRAM**

Aviation Noise Program manages aircraft noise issues and navigation programs through an industry-leading noise program built on extensive technology and collaboration efforts with community and aviation stakeholders. Noise Program ensures compliance related to assessing noise impacts and corrective measures that includes management of one of the largest community outreach programs at the MAC and the development and operation of sophisticated technical systems in support of the department's mission.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	466,316	491,359	515,067	23,708	4.8%
Administrative Expenses	24,669	26,887	29,087	2,200	8.2%
Professional Services	153,879	212,000	512,000	300,000	141.5%
Utilities	25,066	19,800	19,800	0	0.0%
Operating Services/Expenses	38,518	123,800	114,000	(9,800)	-7.9%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	708,448	873,846	1,189,954	316,108	36.2%
Full-time Equivalent (FTE) Total	5	5	5		

#### **HIGHLIGHTS OF BUDGET**

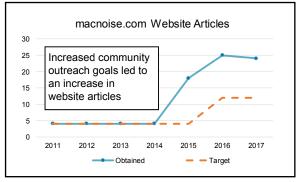
Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
Administrative Expenses	The increase in Administrative Expenses are attributable to print mailing for Crystal Airport environmental assessment and enhanced community engagement efforts.
Professional Services	The increase in Professional Services is driven by costs associated with noise monitoring, community engagement, annual noise contour development, and long-term comprehensive for airports within the MAC system.
Operating Services/Expenses	Operating Services/Expenses decreased as a result of new efficiencies following 2017 equipment purchases.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

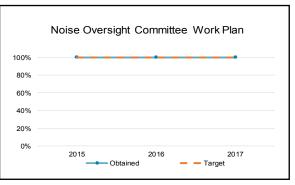
**Objective:** Enhance relationships with our stakeholders through implementation of an expanded role for the MAC Noise Program Office to include a focus on wider community engagement with a narrative beyond noise

**Results:** During Q4, MAC Noise Office staff continued to lead the stakeholder engagement efforts for the Lake Elmo Airport Environmental Assessment/Environmental Assessment Worksheet. During the quarter, a public event and Community Engagement Panel (CEP) meetings were held to facilitate stakeholder engagement. MAC Noise Office staff developed and executed a Super Bowl communication plan. Two town hall meetings were held in the community to discuss latest operational trends at MSP, and a Listening Session was held in October to solicit ideas from the public for the Noise Oversight Committee's consideration for their 2018 Work Plan.

Objectives:	Increase awareness and transparency of the MAC's commitment to the community by sharing program accomplishments, capabilities, and lessons learned
Organizational Strategic Goals:	Grow and enhance air service at MSP
Organizational Strategic Objectives	: Leverage communication tools for a balanced public engagement
	process



Number of website news articles published



Percentage of work plan completed

## AIR SERVICE BUSINESS DEVELOPMENT

Air Service Business Development is responsible for three primary areas: 1) developing air service - marketing MSP for new international passenger and cargo flights and for new low-fare domestic passenger flights; 2) promoting the facilities and services of MSP and the MAC's system of airports both domestically and internationally; and 3) building community relations - establishing partnerships with public and private sectors to increase their awareness of the importance of air service in the region and solicit their support for such services.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel			142,297	142,297	100.0%
Administrative Expenses	16,975	24,331	44,168	19,837	81.5%
Professional Services	62,392	119,000	100,000	(19,000)	-16.0%
Utilities				0	0.0%
Operating Services/Expenses	270,428	100,000		(100,000)	-100.0%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	349,795	243,331	286,465	43,134	17.7%
Full-time Equivalent (FTE) Total	0	0	1		

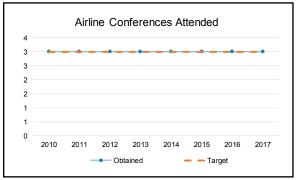
#### **HIGHLIGHTS OF BUDGET**

•	Personnel	The increase in Personnel is attributable to one FTE addition to the Air Service Business Development service center.
•	Administrative Expenses	Air service data service is appropriately re-categorized as an administrative expense instead of a professional services expense
•	Professional Services	Air service data service is appropriately re-categorized as an administrative expense instead of a professional services expense
•	Operating Services/Expenses	The Operating Services/Expenses category decreased because incentives moved to MAC General in 2018.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:	Market MSP to incumbent and potential new entrant airlines at industry air service business
	development conferences in 2017, with the goal of increasing awareness of the Minneapolis-St.
	Paul air travel market
Results:	Three air service conferences were attended and 35 airline meetings were completed.

Objective:	Market MSP to incumbent and potential new entrant airlines at industry air service business development conferences in 2018, and communicate/leverage Regional Air Services Partnership efforts to target airlines, with the goal of increasing awareness of the Minneapolis-St. Paul air travel market
Organizational Strategic Goal:	Grow and enhance air service at MSP
Organizational Strategic Objective	: Increase competition, attract new airlines, and expand service for non- stop destinations



Number of airline conferences attended



Total number of non-stop destinations offered



Total number of competitive destinations offered

## SUSTAINABILITY & STRATEGY

Sustainability & Strategy is responsible for the Commission's sustainability and strategy plans, processes, and outcomes. The sustainability effort provides a plan, process, and measurement of outcomes for the organization's vision to infuse sustainability into its way of doing business. The strategic plan sets the key goals to achieve the MAC's vision to provide your best airport experience.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	173,622	286,332	287,627	1,295	0.5%
Administrative Expenses	11,721	20,375	20,375	0	0.0%
Professional Services	99,848	125,000	25,000	(100,000)	-80.0%
Utilities	707	840	840	0	0.0%
Operating Services/Expenses			5,000	5,000	100.0%
Maintenance				0	0.0%
Other	1,517	1,500	1,500	0	0.0%
Total Budget	287,416	434,047	340,342	(93,705)	-21.6%
Full-time Equivalent (FTE) Total	2	3	3		

#### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
Professional Services	Position vacancies and unknown timeline for filling them make it unlikely 125K would be utilized in 2018. Expenses in this area may increase beyond amount budgeted if and when positions are filled.
Operating Services/Expenses	The increase in Operating Services/Expenses is due to one-time costs for Super Bowl LII.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:Complete the first phase of a sustainability data management programResults:Hiring of a sustainability data analyst was put on hold by the CEO. As a result, no work on a<br/>sustainability data management program took place in 2017.

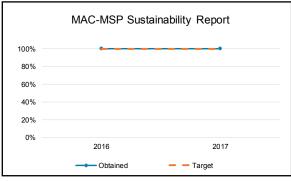
#### 2018 SERVICE CENTER OBJECTIVE

Objective:	Support the new division VP in infusing sustainability into everything we
	do
Ormanizational Strategia Cool:	Innovate through appartunities in technology and quetainshifty

Organizational Strategic Goal: Innovate through opportunities in technology and sustainability

Organizational Strategic Objective: Integrate sustainability into our culture

#### SERVICE CENTER PERFORMANCE MEASURES



Publish an annual sustainability report and/or update report

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## Finance & Revenue **Development Division**





## **Service Centers**

#### Number

76700 Live Well, Stay Well

Name

- 76800 Insurance/Risk Management
- 78000 Finance
- 78100 MAC General 78200
  - Purchasing
- **Commercial Management & Airline Affairs** 80000 80100 **Concessions & Business Development MSP** Airport Conference Center 82050

#### Notations to Service Center Summaries:

- Variance (dollars and %) is computed between 2017 Budget and 2018 Budget amounts
- Explanations for the variances are based upon the 2017 Budget and 2018 Budget amounts
- Negative variances, in most cases, are the result of reductions in one-time expenses or budget reductions
- The FTE count in each service center is as of January 1, 2018. The FTE budget was calculated in 2017 and may not reflect the budgeted FTE count for some service centers.
- Significant changes were made to the organization staff, including the addition of two divisions and the addition of several vice president roles. No changes were made to the service center structure. Therefore, presented at the beginning of each division within this section are the division's organizational chart as approved by the commission, as well as a list of the service centers that are managed within that division.

## LIVE WELL, STAY WELL

The Live Well, Stay Well Program works to encourage, educate, and support employees in making healthier lifestyle choices and strives to create a positive impact on employee morale and productivity. By achieving these goals, the program is also instrumental in reducing healthcare costs.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	330	1,000	1,000	0	0.0%
Administrative Expenses	8,058	2,000	7,000	5,000	250.0%
Professional Services		6,000	6,000	0	0.0%
Utilities		504	504	0	0.0%
Operating Services/Expenses	134,264	141,000	136,000	(5,000)	-3.5%
Maintenance				0	0.0%
Other	3,265	10,000	10,000	0	0.0%
Total Budget	145,918	160,504	160,504	0	0.0%
Full-time Equivalent (FTE) Total	0	0	0		

#### **HIGHLIGHTS OF BUDGET**

٠	Administrative Expenses	Funds added for additional administrative expense needs (i.e. WE	ELCOA
	·	Conference, etc.)	

• Operating Services/Expenses Funds were re-allocated to Administrative Expense needs.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

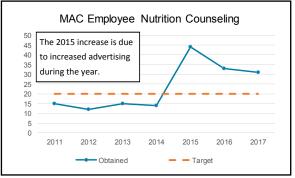
**Objective:** Successfully transition the Well-being brand to the Live Well, Stay Well brand through enhanced internal communications and consistent engagement with MAC staff

**Results:** Further progress was made in exploring use of an online wellness portal that will more fully integrate the Health Engagement Program and Live Well, Stay Well. Additional progress was made in channeling marketing and communications through one brand that touches all programs and continues to engage employees.

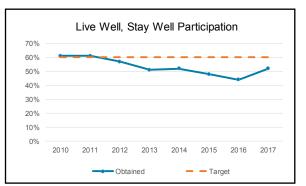
#### 2018 SERVICE CENTER OBJECTIVE

Objective:	Investigate online tools for Live Well, Stay Well to streamline processes and further engage our employees and their families, with an eye toward future implementation
Organizational Strategic Goal:	Innovate through opportunities in technology and sustainability
Organizational Strategic Objective:	Modernize and accelerate technology use, enabling enterprise solutions

#### SERVICE CENTER PERFORMANCE MEASURES



Number of employees receiving nutrition counseling



Percent of employees participating in Live Well, Stay Well programs

## **INSURANCE/RISK MANAGEMENT**

Insurance/Risk Management is responsible for the planning, organizing, and administering of risk and insurance programs to safeguard the MAC's assets from the risk of accidental loss, through the use of recognized risk management techniques. Responsibilities include risk identification, evaluation, and measurement; preventative strategies; claims administration; purchase of coverage; and evaluation of financing alternatives. Areas of responsibility also include employee benefit programs and administration, workers' compensation, the MAC's health engagement program, liability and property insurance coverage, employee and fleet safety, and maintaining a safe airports system.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	12,642,115	13,167,099	13,770,916	603,817	4.6%
Administrative Expenses	11,915	23,750	21,750	(2,000)	-8.4%
Professional Services	381,835	371,000	395,535	24,535	6.6%
Utilities	828	504	840	336	66.7%
Operating Services/Expenses	4,139	16,000	13,060	(2,940)	-18.4%
Maintenance	3,960			0	0.0%
Other	1,936,611	2,160,483	2,193,709	33,226	1.5%
Total Budget	14,981,403	15,738,836	16,395,810	656,974	4.2%
Full-time Equivalent (FTE) Total	6	6	6		

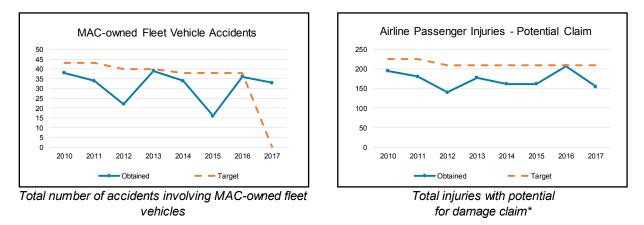
#### **HIGHLIGHTS OF BUDGET**

•	Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases and includes an increase in employee benefits based on current head count.
•	Administrative Expenses	The decrease in Administrative Expenses is attributable to lower service center travel expenses in 2018.
•	Professional Services	The increase in Professional Services is attributable to a 2018 special project to be led by the Benefits consultant.
•	Utilities	The Utilities increase is attributable to additional business cell phone usage.
•	Operating Services/Expenses	The 2017 Operating Services/Expenses budget included one-time purchases of equipment. This is not included in the 2018 budget.
•	Other	The Other expense increase is attributable to increased insurance needs in 2018.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:Complete harmonization of the Business Continuity Plans and the Continuity of Operations PlanResults:Harmonization of the Business Continuity Plan and the Continuity of Operations Plan was<br/>completed.

Objective:	Designate efforts to reduce MAC employee accidents and injuries; outline methods to increase employee trainings with relevant content, increase attendance at Safety Meetings, and update and revamp safety policies
Organizational Strategic Goal:	Keep our airports safe and secure
Organizational Strategic Objective:	Prepare for current and potential threats to public safety and critical infrastructure through robust and aligned airport planning processes



\*This graph contains a target line that indicates a maximum target value. The measures is met successfully when the actual value is below the target values.

## FINANCE

Finance is responsible for the Commission's accounting and cash management functions and the preparation of the annual operating budget as well as the Comprehensive Annual Financial Report. Finance oversees financial planning which includes, but is not limited to, issuance of all debt, development of tenant rates and charges, costbenefit analysis, financial analysis, and request for proposal assistance.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	1,423,359	1,456,275	1,669,209	212,934	14.6%
Administrative Expenses	26,711	25,796	24,691	(1,105)	-4.3%
Professional Services	209,552	205,900	214,750	8,850	4.3%
Utilities	1,980	2,160	2,160	0	0.0%
Operating Services/Expenses	226,310	213,200	219,805	6,605	3.1%
Maintenance	821			0	0.0%
Other	1,949	2,000	1,000	(1,000)	-50.0%
Total Budget	1,890,681	1,905,331	2,131,615	226,284	11 <b>.9</b> %
Full-time Equivalent (FTE) Total	15	15	15		

#### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases, as well as to salary increases for positions that were reclassified in the organizational structure.
Professional Services	The increase is due to additional actuarial costs in determining the best course of action in implementing GASB No. 75
Operating Services/Expenses	The increase is due to additional trustee costs associated with borrowing from the Commission's revolving line of credit

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

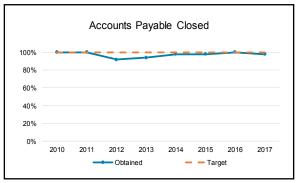
**Objective:** Manage the construction of new concession lease management files as new store units open, and the deconstruction of existing leases as old store units close

**Results:** With the completion of the Phase I concessions program, new concession lease management lease files for Phase II will be created and managed as the Phase II units come on line.

Objective:	Manage the construction of new concession lease management files as new Phase II concessions program store units open, and the deconstruction of existing leases as old store units close. Evaluate the best cost-effective course of action in the implementation of Governmental Accounting Standards Board Statement #75 - Accounting and Financial Reporting for Post-employment Benefits other than Pensions; possible considerations are establishing a trust to pay for future benefits.
Organizational Strategic Goal:	Maintain our competitive cost structure while maintaining our airports' economic benefit
Organizational Strategic Objective:	Maintain the MAC's competitive cost structure

Service Center Summaries

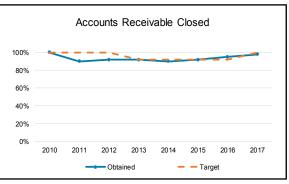
#### SERVICE CENTER PERFORMANCE MEASURES



Percentage of Accounts Payable closed by the Friday before General Ledger closing



Percentage of Monthly General Ledger closed by the second Monday of the month



Percentage of Accounts Receivable closed within two business days

## MAC GENERAL

The MAC General Service Center contains expenses that are not specific to any one service center such as FICA/Medicare taxes, retirement plans, utilities, and gas and diesel for MAC vehicles. The FTE count is for all open positions that have not been allocated to a specific service center. Finance is responsible for the budgeting of the MAC General service center.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	10,890,438	10,880,603		1,140,386	10.5%
Administrative Expenses	8,140			0	0.0%
Professional Services	494,449			0	0.0%
Utilities	18,184,935	19,216,337	19,057,248	(159,089)	-0.8%
Operating Services/Expenses	513,443	810,061	882,190	72,129	8.9%
Maintenance	1,590,582	2,037,825	2,111,355	73,530	3.6%
Other	192,613	55,045	405,045	350,000	635.8%
Total Budget	31,874,600	32,999,871	34,476,827	1,476,956	4.5%
Full-time Equivalent (FTE) Total	0	0.5	2.5		

#### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to additional unallocated headcount in 2018.
Utilities	Utilities are now exempt from state sales tax. The 2017 budget included sales tax. The decrease is offset by an expected increase in Utility costs.
Operating Services/Expenses	The increase in operating services is due to an increase in the Commission's contribution to the Airport Foundation's art programs.
Maintenance	The increase is attributable to increased costs for the maintenance of the baggage systems at MSP.
• Other	The increase in Other is attributable to one airline expected to qualify for the Air Carrier Incentive Program under this service center in 2018.

## PURCHASING

Purchasing oversees the acquisition of materials, equipment, and supplies; coordinating minor construction; and repairing or performing minor maintenance to meet the needs of end users by using the method that results in the most efficient use of MAC resources. Purchasing administers the Commercial Card Program for the MAC and maintains blanket orders, including insurance certificates, for contracts generated by Purchasing. Purchasing's responsibilities also include disposing of surplus property by distribution of surplus items between MAC departments, selling items on the open market, and donating items to various charities.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	435,487	455,401	470,078	14,677	3.2%
Administrative Expenses	38,774	49,200	44,200	(5,000)	-10.2%
Professional Services				0	0.0%
Operating Services/Expenses	183,068	171,100	185,400	14,300	8.4%
Maintenance				0	0.0%
Other	7,184	1,700	8,100	6,400	376.5%
Total Budget	664,513	677,401	707,778	30,377	4.5%
Full-time Equivalent (FTE) Total	6	6	6		

#### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
Administrative Expenses	The decrease in Administrative Expenses is attributable to postage costs, which are decreasing as electronic transmissions increase.
Operating Services/Expenses	This increase includes the MAC-wide management of the multi-functional devices contract and the management of the General Offices Service Center.
• Other	This increase primarily includes the MAC-wide tax exempt vehicle tab renewals, which come due in even-numbered years.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

 Objective:
 Develop and implement a paperless submission and review process for Request for Proposals (RFPs)

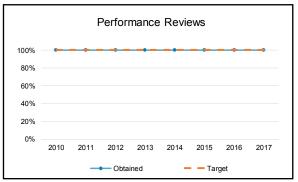
 Results:
 Purchasing continues to accept one original proposal document along with an electronic copy

on a flash drive; the electronic copy is saved to a shared drive for the project team to review

Objective:	Create and implement a quarterly newsletter covering Organizational Staff, Division, Finance, and Purchasing meetings to improve division communications
Organizational Strategic Goal:	Be a model employer
Organizational Strategic Objective	: Talent - Cultivate an engaged workforce

Service Center Summaries

## SERVICE CENTER PERFORMANCE MEASURES



Percentage of department employee performance reviews completed by year-end

## **COMMERCIAL MANAGEMENT & AIRLINE AFFAIRS**

Commercial Management & Airline Affairs (CMAA) oversees revenue generation from airline and airport concession agreements, MSP leases, and system-wide non-aeronautical leases. CMAA manages MAC property and real estate. It also works to maintain and enhance air service at MSP, including development and management of incentive programs and efforts to spur additional domestic and international route development.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	520,275	537,170	527,675	(9,495)	-1.8%
Administrative Expenses	22,970	24,600	29,529	4,929	20.0%
Professional Services	116,042	120,000	100,000	(20,000)	-16.7%
Utilities	4,350	4,500	4,500	0	0.0%
Operating Services/Expenses	394	2,500	1,500	(1,000)	-40.0%
Maintenance	331,696	346,015	360,845	14,830	4.3%
Other	(113)			0	0.0%
Total Budget	995,613	1,034,785	1,024,049	(10,736)	-1.0%
Full-time Equivalent (FTE) Total	5	5	5		

#### **HIGHLIGHTS OF BUDGET**

Personnel	The decrease in Personnel is attributable to vacancies due to employee turnover and changes in step levels for positions with employee turnover.
Administrative Expenses	The increase in Administrative Expenses is attributable to increased local and conference travel expenses.
Professional Services	Professional Services is lower due to an anticipated decrease in consultant needs.
Maintenance	Increased maintenance expenses are attributable to air cargo building maintenance, which includes expenses for a new escalator built into the annual contract.

#### SERVICE CENTER PERFORMANCE MEASURES



Number of real estate leases entered into at MAC Reliever Airports

## **CONCESSIONS & BUSINESS DEVELOPMENT**

Concessions & Business Development oversees revenue generation from airport concession agreements and implements new concepts to improve the customer experience and revenue generation at MSP. Concessions & Business Development manages MAC property and real estate within the terminals.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	458,700	485,800	512,964	27,164	5.6%
Administrative Expenses	11,756	16,557	17,980	1,423	8.6%
Professional Services	319,535	425,000	120,000	(305,000)	-71.8%
Utilities	3,360	3,780	3,780	0	0.0%
Operating Services/Expenses	1,170	5,000	3,000	(2,000)	-40.0%
Maintenance				0	0.0%
Other	2,331	10,000	10,000	0	0.0%
Total Budget	796,852	946,137	667,724	(278,413)	-29.4%
Full-time Equivalent (FTE) Total	5	5	5		

#### HIGHLIGHTS OF BUDGET

•	Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
•	Professional Services	The decrease in Professional Services anticipates lower consultant payments due to the expiration of the current consultant agreement.
•	Operating Services/Expenses	The decrease in Operating Services/Expenses is attributable to a decreased need for special projects advertising.

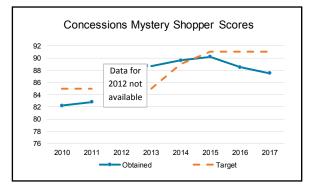
#### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:Curate a food-beverage program diverse in meeting traveling public needs, bid competitively<br/>through an RFP process; refine and enhance the new retail program to ensure accessible<br/>customer service training standards and identify opportunities to drive revenueResults:During Q4 we initiated, and engaged MAC Public Affairs & Marketing to join, monthly sales<br/>comps meetings to study results of year-over-year comps, identify underperforming units, and<br/>look for areas to increase revenue. Moving forward, we will target one Food & Beverage and one<br/>Retail unit each month to study ways to increase customer satisfaction within the unit and<br/>increase the average guest check.

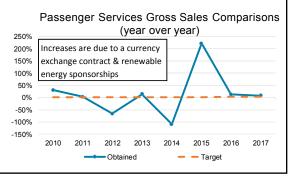
Objective:	Initiate the MAC concessions design process and commence
	construction for 30 new restaurants for the MSP Phase 2 Concessions
	Program; ensure that the concept executions and design support the
	vision to evolve the customer experience from current MSP offerings
Organizational Strategic Goal:	Delight our passengers
Organizational Strategic Objective	Reimagine and renew our airports to continually evolve our customer
	experience



Percentage increase or decrease in concessions gross sales (n/a passenger services)



Annual average mystery shopper score observed by third party



Percent change in passenger services gross sales

## **MSP AIRPORT CONFERENCE CENTER**

The MSP Airport Conference Center provides first-class customer service to the external and internal customer. Staff are responsible for the management and promotion of the conference center, providing catering services, maintaining audio-visual equipment, and invoicing internal/external clients.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	170,201	203,110	244,938	41,828	20.6%
Administrative Expenses	6,801	7,000	8,500	1,500	21.4%
Professional Services				0	0.0%
Utilities	840	864	864	0	0.0%
Operating Services/Expenses	26,549	33,700	33,700	0	0.0%
Maintenance				0	0.0%
Other	4,989	7,600	10,600	3,000	39.5%
Total Budget	209,380	252,274	298,602	46,328	18.4%
Full-time Equivalent (FTE) Total	2	3	3		

#### **HIGHLIGHTS OF BUDGET**

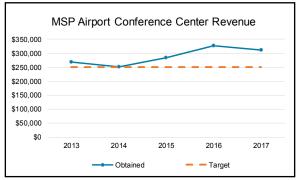
Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases. It also includes an increase for temporary staff to cover increased business clientele and the needs of those clients.
Administrative Expenses	The increase in Administrative Expenses is attributable to better aligning budgeted office supply amounts to anticipated actual needs.
• Other	The increase in Other is due to a minor asset purchase required by the Minnesota Department of Health.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

**Objective:** Improve the initial online customer experience, enhance the face-to-face experience, and expand technological offerings to our customers

**Results:** During 2017, the Conference Center completed the technology upgrades in the Commission Chambers, and upgraded the online experience to include updated photos of the new technology and interior features. In an effort to enhance the face-to-face customer experience, Conference Center staff worked to increase staff presence in the office. This effort will will continue to be a focus in 2018.

Objective:	Explore and introduce new offerings to our customers
Organizational Strategic Goal:	Delight our passengers
Organizational Strategic Objective.	Reimagine and renew our airports to continually evolve our customer experience

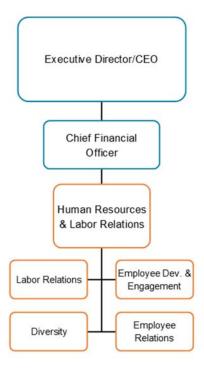


Gross revenue generated

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# Human Resources & Labor Relations Division

**Division Organizational Chart** 



## Service Centers

Number	Name
75700	Human Resources & Labor Relations
76600	Employee Development & Engagement
80600	Diversity
81500	Employee Relations

#### Notations to Service Center Summaries:

- Variance (dollars and %) is computed between 2017 Budget and 2018 Budget amounts
- Explanations for the variances are based upon the 2017 Budget and 2018 Budget amounts
- Negative variances, in most cases, are the result of reductions in one-time expenses or budget reductions
- The FTE count in each service center is as of January 1, 2018. The FTE budget was calculated in 2017 and may not reflect the budgeted FTE count for some service centers.
- Significant changes were made to the organization staff, including the addition of two divisions and the addition of several vice president roles. No changes were made to the service center structure. Therefore, presented at the beginning of each division within this section are the division's organizational chart as approved by the commission, as well as a list of the service centers that are managed within that division.

## **HUMAN RESOURCES & LABOR RELATIONS**

Human Resources & Labor Relations is responsible for two main areas. Human Resources facilitates the continuation of the MAC as a high-performing organization where employees experience excellence in leadership, challenging work, and opportunities for growth and development while being rewarded competitively. This area is responsible for the oversight and management of human resources, products, and services delivered by Employee Relations, Employee Development & Engagement, and the Office of Diversity. Each of these areas has a separate budget. The Labor Relations area negotiates and administers 13 labor contracts at the Commission. Labor Relations also interacts with and mediates disputes between outside unions and contractors that could jeopardize Commission operations.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	460,168	604,685	591,236	(13,449)	-2.2%
Administrative Expenses	15,031	15,470	15,410	(60)	-0.4%
Professional Services	75,623	95,000	80,000	(15,000)	-15.8%
Utilities	700	840	840	0	0.0%
Operating Services/Expenses	18,028	32,500	32,000	(500)	-1.5%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	569,550	748,495	719,486	(29,009)	-3.9%
Full-time Equivalent (FTE) Total	5	5	5		

#### **HIGHLIGHTS OF BUDGET**

Personnel The decrease in Personnel is attributable to vacancies due to employee turnover and changes in step levels for positions with employee turnover.
 Professional Services Professional Services decreased as a result of lower recruitment needs at the executive level in 2018 and to better align the budgeted general recruiting costs with actual spending in recent years.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

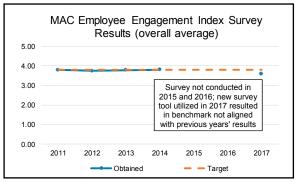
Objective:During 2017, complete the negotiation process for all labor agreementsResults:Negotiation of all MAC labor agreements was completed.

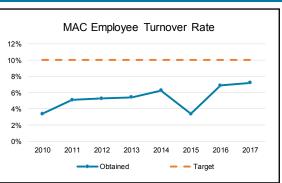
#### **2018 SERVICE CENTER OBJECTIVE**

Obiective:	Form and lead a committee whose objective will be to establish an
e sjeenve.	employee recognition program for the MAC
Organizational Strategic Goal:	Be a model employer

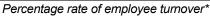
Organizational Strategic Objective: Cultivate an engaged workforce

## SERVICE CENTER PERFORMANCE MEASURES





Employee Engagement Index



\*This graph contains a target line that indicates a maximum target value. The measures is met successfully when the actual value is below the target values.

## **EMPLOYEE DEVELOPMENT & ENGAGEMENT**

Employee Development & Engagement is responsible for the facilitation of employee development throughout the organization. This includes live and on-line training programs, coaching, mentorship, and individual development plans. The department also works with Human Resources and Employee Relations on performance improvement plans and workforce planning.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	263,974	413,887	225,029	(188,858)	-45.6%
Administrative Expenses	1,858	7,500	12,300	4,800	64.0%
Professional Services		25,000	25,000	0	0.0%
Utilities				0	0.0%
Operating Services/Expenses	5,952	7,500	6,500	(1,000)	-13.3%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	271,784	453,887	268,829	(185,058)	-40.8%
Full-time Equivalent (FTE) Total	3	3	1		

#### **HIGHLIGHTS OF BUDGET**

Personnel	The decrease in Personnel is attributable to two FTEs transferred in 2018 from service center 76600-Employee Development to 81500-Employee Relations.
Administrative Expenses	The increase in Administrative Expenses is attributable to additional training materials and supplies for onsite staff development and training classes.
Operating Services/Expenses	The decrease in Operating Services/Expenses is attributable to an anticipated reduction in the number of retirement awards to be distributed in 2018.

#### 2017 SERVICE CENTER OBJECTIVE RESULTS

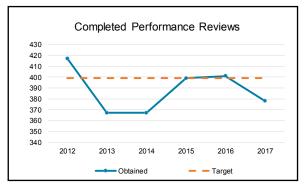
the MAC's strategic goals was 50% complete.

Objective:	Redesign the performance review process to improve organization-wide understanding of the
	MAC's strategic goals
Results:	The redesign of the performance review process to improve organzation-wide understanding of

Objective:	Re-design the MAC's competency architecture to improve how employees are selected, developed, and evaluated Support management and senior leadership in the development of employee engagement action plans
Organizational Strategic Goal:	Be a model employer
Organizational Strategic Objective:	Invest in training and professional development opportunities that align with our goals Cultivate an engaged workforce

Service Center Summaries

#### SERVICE CENTER PERFORMANCE MEASURES



Number of employee performance reviews completed across the MAC

## DIVERSITY

Diversity is responsible for contract compliance and affirmative action programs. Contract compliance includes the Targeted Group Business (TGB) and the Disadvantaged Business Enterprise (DBE) Programs. TGB/DBE responsibilities are community relations, training, certification, and state and federal reporting. The TGB/DBE programs provide business opportunities for firms owned by women, minorities, and persons with disabilities. The Affirmative Action Program includes American with Disabilities Act, English as a Second Language, hiring, and complaint investigations. Customers include the traveling public, the Commission, internal staff, business owners, vendors, contractors, and consultants.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	198,969	200,712	214,678	13,966	7.0%
Administrative Expenses	27,804	34,575	34,675	100	0.3%
Professional Services	1,200	30,000		(30,000)	-100.0%
Utilities	840	850	850	0	0.0%
Operating Services/Expenses	2,845	4,000	4,000	0	0.0%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	231,657	270,137	254,203	(15,934)	-5.9%
Full-time Equivalent (FTE) Total	2	2	2		

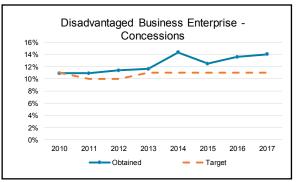
#### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
Professional Services	The 2017 budget included funds for the recruitment of Fire Department interns.

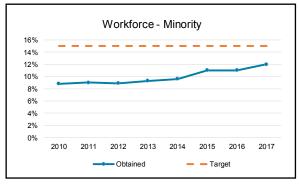
#### 2017 SERVICE CENTER OBJECTIVE RESULTS

*Objective:* Review, revise, and expand the scope of the MAC's diversity plan by the end of 2017 *Results:* During Q4, the MAC's Diversity Plan was reviewed, revised, and expanded.

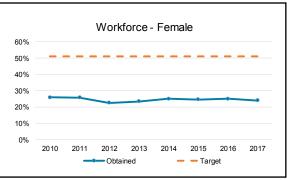
Objective:	Establish a diverse, inclusive and local talent pipeline for future maintenance hires representing economically disadvantaged neighborhoods around Minneapolis-St. Paul International Airport; finalize the MAC's Diversity and Inclusion Plan and present to MAC employees and Commissioners
Organizational Strategic Goal:	Be a model employer
Organizational Strategic Objective	Increase diversity, inclusion, and equity at MAC



Percentage of concession dollars generated by DBEs



Percentage of MAC workforce that is minority



Percentage of MAC workforce that is female

## EMPLOYEE RELATIONS

Employee Relations staff are responsible for: 1) administering compensation programs for all employees; 2) maintaining all personnel data, personnel files, and the Human Resource Information System (HRIS); 3) developing, maintaining, and distributing personnel policies and management reports; 4) counseling management and non-management employees with regard to Human Resource policies and practices; 5) working with supervisors and leaders to strengthen skills related to employee relations issues; and 6) administering all policies related to recruitment and staffing for all open positions.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	341,305	345,243	553,181	207,938	60.2%
Administrative Expenses	9,677	17,645	15,607	(2,038)	-11.6%
Professional Services	74,994	62,264	80,000	17,736	28.5%
Utilities				0	0.0%
Operating Services/Expenses	8,164	8,000	9,500	1,500	18.8%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	434,140	433,152	658,288	225,136	52.0%
Full-time Equivalent (FTE) Total	3	3	5		

#### **HIGHLIGHTS OF BUDGET**

•	Personnel	The increase in Personnel is attributable wage and step increases, as well as to 2 FTEs transferred in 2018 from service center 76600-Employee Development to 81500-Employee Relations.
•	Administrative Expenses	Administrative Expenses have decreased primarily due to reduced out of town travel. Reductions were also made due to previous actual spending.
•	Professional Services	Professional Services increased due to increased staffing and recruiting activity. The increase also reflects actual spending in years that include high levels of staffing activity.
•	Operating Services/Expenses	Operating Services/Expenses increased due to increased recruitment advertising costs related to higher levels of staffing and recruiting.

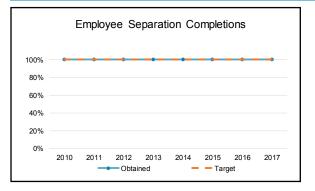
#### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:	Obtain Commission approval of revisions to current Human Resources policies and new
	policies scheduled for review
Results:	During Q4, the Commission reviewed and approved revisions to the MAC Health Care Savings Plan policy.

#### 2018 SERVICE CENTER OBJECTIVE

Objective:	Develop and implement a social media policy throughout the MAC
Organizational Strategic Goal:	Be a model employer

Organizational Strategic Objective: Cultivate an engaged workforce

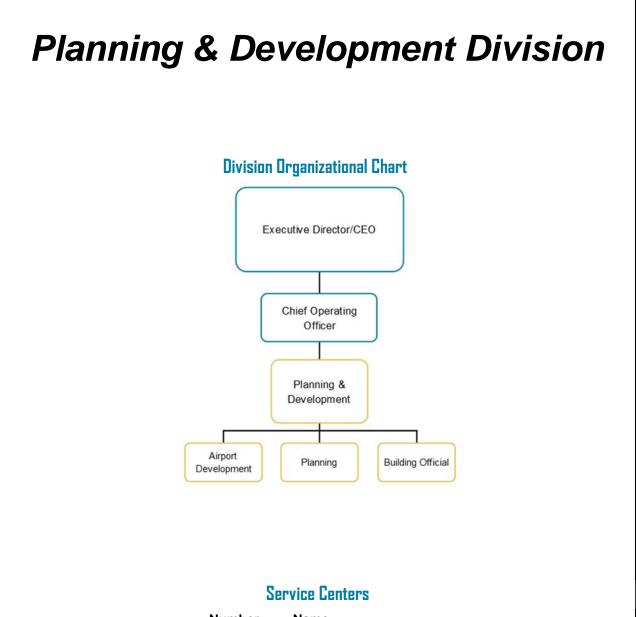


Employee separation completions according to policies, procedures and law

	Leaves of Absence Administration						
100%							
80%							
60%							
40%							
20%							
0%	2013	2014	2015	2016	2017		
	2013	Obtair		Targe	-		

Leaves of absence administration - return employees to active employment status upon receipt of employee medical clearance \_\_\_\_\_

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Number	Name
75500	Planning & Development
77000	Airport Development
77100	Building Official

### Notations to Service Center Summaries:

- Variance (dollars and %) is computed between 2017 Budget and 2018 Budget amounts
- Explanations for the variances are based upon the 2017 Budget and 2018 Budget amounts
- Negative variances, in most cases, are the result of reductions in one-time expenses or budget reductions
- The FTE count in each service center is as of January 1, 2018. The FTE budget was calculated in 2017 and may not reflect the budgeted FTE count for some service centers.
- Significant changes were made to the organization staff, including the addition of two divisions and the addition of several vice president roles. No changes were made to the service center structure. Therefore, presented at the beginning of each division within this section are the division's organizational chart as approved by the commission, as well as a list of the service centers that are managed within that division.

# PLANNING AND DEVELOPMENT

Planning and Development supervises property acquisition, planning, design, engineering, architecture, construction of all Commission facilities, and grants management. In addition, the division is responsible for maintaining good relationships with local, state, and federal government partners and airport stakeholders. The Vice President of Planning and Development is the staff liaison to the Commission's Planning, Development & Environment Committee.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	233,197	230,409	227,558	(2,851)	-1.2%
Administrative Expenses	4,827	12,800	12,800	0	0.0%
Professional Services	45,514	245,000	195,000	(50,000)	-20.4%
Utilities	840	840	840	0	0.0%
Operating Services/Expenses	230,381	222,500	240,000	17,500	7.9%
Maintenance				0	0.0%
Other	450			0	0.0%
Total Budget	515,209	711,549	676,198	(35,351)	-5.0%
Full-time Equivalent (FTE) Total	2	2	2		

### **HIGHLIGHTS OF BUDGET**

Personnel	The decrease in Personnel is attributable to vacancies due to employee turnover.
Professional Services	The decrease in Professional Services is due to costs expected to be less than originally envisioned related to zoning for the St. Paul Downtown Airport.
Operating Services/Expenses	The increase in Operating Services/Expenses is due to additional Metropolitan Council fees related to Aviation System Planning and Airport System Implementation.

# AIRPORT DEVELOPMENT

Airport Development develops and implements the Commission's Capital Improvement Program (CIP). Within the CIP, the service center supervises the planning, design, engineering, architecture, and construction of all Commission facilities at MSP and the Commission's six Reliever Airports.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	664,357	724,079	632,209	(91,870)	-12.7%
Administrative Expenses	37,793	42,750	43,800	1,050	2.5%
Professional Services	308,534	353,750	400,000	46,250	13.1%
Utilities	7,111	6,720	6,720	0	0.0%
Operating Services/Expenses	843	3,000	18,120	15,120	504.0%
Maintenance				0	0.0%
Other	5,109	9,500	9,500	0	0.0%
Total Budget	1,023,746	1,139,799	1,110,349	(29,450)	-2.6%
Full-time Equivalent (FTE) Total	16	16	16		

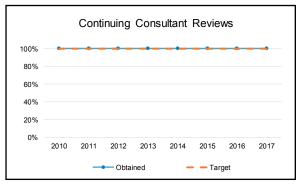
### **HIGHLIGHTS OF BUDGET**

Personnel	The decrease in Personnel is attributable to vacancies due to employee turnover and changes in step levels for positions with employee turnover.
Administrative Expenses	Administrative Expense increases are attributable to additional professional association costs.
Professional Services	Increased Professional Services costs are attributable to data collection and analysis for the Long-Term Comprehensive Plans and the update/ revisions to the MAC Design and Construction Standards.
Operating Services/Expenses	This increase is due to the addition of a land record scanning project for the Reliever Airports. The project will assure the records' legibility and retrievability by various departments.

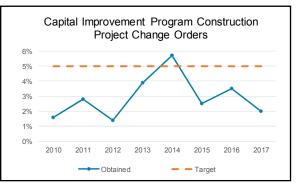
## 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:	Launch and advance the revamp of the MAC Design and Construction Standards to reformat,
	update, and integrate the defined initiatives in the MAC Sustainability Management Plan
Results:	During Q4, Airport Development launched the revamp of the MAC Design and Construction Standards, with work planned to continue into 2018.

Objective:	Complete the Airport Development restructuring effort with staff input on roles and responsibilities
Organizational Strategic Goal:	Be a model employer
Organizational Strategic Objective	: Cultivate an engaged workforce



Percentage of annual performance reviews completed by year-end



Percentage of CIP construction projects within historic change order parameters

# **BUILDING OFFICIAL**

The Building Official is responsible for the overall administration of the Metropolitan Airports Commission Building Code Ordinance. Service center responsibilities include the application, administration, implementation, and enforcement of the State of Minnesota Building Code and the MAC Construction Standards and Procedures, Design Standards and Guidelines. Duties include plan review, issuance of permits, inspections, and retention of inspection history and building construction plans. In addition, the service center provides construction coordination for retail, food, and beverage construction build-outs and remodeling of existing tenant spaces within MSP's Terminal 1 and Terminal 2.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	191,030	195,001	204,554	9,553	4.9%
Administrative Expenses	21,351	20,000	4,710	(15,290)	-76.5%
Professional Services				0	0.0%
Utilities	840	840	900	60	7.1%
Operating Services/Expenses		100	100	0	0.0%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	213,221	215,941	210,264	(5,677)	-2.6%
Full-time Equivalent (FTE) Total	2	2	2		

#### **HIGHLIGHTS OF BUDGET**

•	Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
•	Administrative Expenses	The decrease in Administrative Expenses is attributable to software costs that have been appropriately moved to Information Technology.

### 2017 SERVICE CENTER OBJECTIVE RESULTS

**Objective:** Issue new space permits within 10-14 days after applications are received and plan reviews are completed

**Results:** All new space permits were issued within 10-14 days of application and plan review.

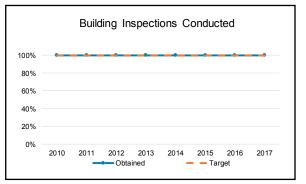
### 2018 SERVICE CENTER OBJECTIVE

**Objective:** 

Receive and review at least 50% of submitted plans electronically

Organizational Strategic Goal:Innovate through opportunities in technology and sustainabilityOrganizational Strategic Objective:Modernize and accelerate technology use, enabling enterprise

### SERVICE CENTER PERFORMANCE MEASURES



Conduct inspections within 24 hours of the request



Conduct Plan Reviews on construction plans within 14 days of submittals

### **Management & Operations Division Division Organizational Chart** Executive Director/CEO Chief Operating Officer Management & Operations Customer MSP Operations Airport Fire Airport Police Experience **Reliever Airports** Operations Analysis Field Maint. & Landside Facilities-Facilities-Emergency Airside Ops Operations Terminal 2 Programs Terminal 1

# **Service Centers**

Number	Name
75800	Management & Operations
82000	MSP Airport Operations
83400	Landside-Administration
85500	Facilities-Terminal 2
86100	Facilities-Terminal 1
86300	Facilities-Energy Management Center
88400	Trades-Administration
88000	Trades-Electricians
88100	Trades-Painters
88200	Trades-Carpenters
88300	Trades-Plumbers
89000	Field Maintenance
82600	Airside Operations
83600	Fire
84200	Police
90000	Relievers-Administration
90200	Relievers-St. Paul
90300	Relievers-Lake Elmo
90400	Relievers-Airlake
90500	Relievers-Flying Cloud
90600	Relievers-Crystal
90700	Relievers-Anoka

### Notations to Service Center Summaries:

- Variance (dollars and %) is computed between 2017 Budget and 2018 Budget amounts
- Explanations for the variances are based upon the 2017 Budget and 2018 Budget amounts
- Negative variances, in most cases, are the result of reductions in one-time expenses or budget reductions
- The FTE count in each service center is as of January 1, 2018. The FTE budget was calculated in 2017 and may not reflect the budgeted FTE count for some service centers.
- Significant changes were made to the organization staff, including the addition of two divisions and the addition of several vice president roles. No changes were made to the service center structure. Therefore, presented at the beginning of each division within this section are the division's organizational chart as approved by the commission, as well as a list of the service centers that are managed within that division.

# **MANAGEMENT & OPERATIONS**

Management & Operations is led by the Vice President of Management & Operations and is responsible for oversight and administration of the departments that manage the day-to-day operations of the MAC's system of airports. These departments include Police, Fire, MSP Operations & Administration, and Reliever Airports. The Vice President of Management & Operations is the staff liaison to the Commission's Management & Operations Committee. Working with the Committee Chair, the Vice President is responsible for ensuring the effective conduct of business through the committee process of all operations-related issues, and for participating at the senior staff level in policy development, strategic planning, and interdepartmental coordination.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	359,968	345,498	380,254	34,756	10.1%
Administrative Expenses	9,501	9,500	10,050	550	5.8%
Professional Services	20,000	24,000	24,000	0	0.0%
Utilities	1,680	840	1,700	860	102.4%
Operating Services/Expenses				0	0.0%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	391,149	379,838	416,004	36,166	9.5%
Full-time Equivalent (FTE) Total	3.5	3.5	3.5		

#### HIGHLIGHTS OF BUDGET

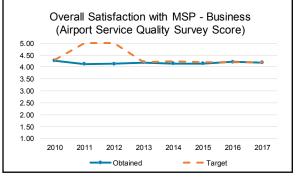
Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
Utilities	The 2018 "Telephone - Cellular" budget was increased to account for two individuals rather than just one.

### 2017 SERVICE CENTER OBJECTIVE RESULTS

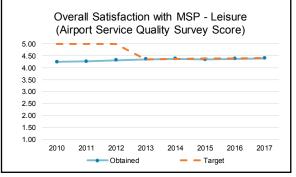
**Objective:** Align divisional activities to maintain public safety, prevent runway incursions, and prepare facilities and operations plans for Super Bowl LII in 2018

**Results:** Staff completed Operational Plans for each airport that anticipated Super Bowl LII aircraft traffic. Staff conducted multiple training sessions for airport and airline employees and MAC staff in the recognition of indicators of possible human trafficking activity, and met monthly to track plans, identify issues, and coordinate with Fixed Base Operators, airlines, law enforcement agencies, and security details. In addition, the MSP Regional/Diversion Irregular Operations Workshop was held with great regional attendance; discussions included an in-depth look into security-related disruptions and updating the group on capabilities of regional assets.

Objective: Organizational Strategic Goal:	Develop a comprehensive airport evacuation plan, conduct an airport- wide emergency exercise, and develop enhanced security measures for airport stakeholders Keep our airports safe and secure
Organizational Strategic Objectiv	e: Engage, support, and expand emergency preparedness and response training for the airport community



Airport Service Quality Survey Score: 5-point scale (5 = excellent, 1 = poor)



Airport Service Quality Survey Score: 5-point scale (5 = excellent, 1 = poor)

# MSP AIRPORT OPERATIONS

MSP Airport Operations responds to the operational, maintenance, and emergency preparedness needs of the traveling public, outside agencies, airlines, and tenants. Considered the "landlord" of MSP, customer service is a key element of this department. Furthermore, special events and terminal complex activities are coordinated through this department.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	328,747	339,994	396,344	56,350	16.6%
Administrative Expenses	36,310	47,370	47,370	0	0.0%
Professional Services	26,087	38,920	38,920	0	0.0%
Utilities	6,032	5,294	5,294	0	0.0%
Operating Services/Expenses	153,321	122,338	132,850	10,512	8.6%
Maintenance		32,100		(32,100)	-100.0%
Other	16,699	10,029	10,029	0	0.0%
Total Budget	567,197	596,045	630,807	34,762	5.8%
Full-time Equivalent (FTE) Total	3	3	3		

#### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases, as well as the inclusion of a temporary position to update and maintain the Everbridge System and Tenant Directory.
Operating Services/Expenses	The primary increase in this category is due to the Customer Service Action Council and MSP Jobs Committee including English as a Second Language training.
Maintenance	The 2017 budget included a one-time project. The decrease in this category is a result of no special projects planned during 2018.

### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:	Partner with the FAA and AAAE to research and develop potential national standards, prototype
	solutions, and propose guidelines for consistent and effective independent navigation for
	travelers with disabilities and the elderly in multi-modal airport hubs
Results:	The Federal Aviation Administration suspended work on this project due to unforeseen
	circumstances. We hope to restart the project during 2018.

Objective:	Partner with Open Doors Organization (ODO) to host the 2018 Universal Access in Airports Conference, an open exchange of ideas and best practices on customer service and accessibility for travelers with disabilities and aging adults, at MSP
Organizational Strategic Goal:	Delight our passengers
Organizational Strategic Objective:	Advance the culture of customer experience at our airports



Airport Service Quality Survey Score: 5-point scale (5 = excellent, 1 = poor)

# LANDSIDE-ADMINISTRATION

Landside is responsible for the administration of public parking, employee parking, commercial vehicle operations, and Lost & Found program at MSP. This includes the parking facilities, commercial vehicle roadways, and related automated access and revenue control systems. Landside also manages the ground transportation regulations at MSP, including taxis, limousines, shared ride shuttles, transportation network companies, charter buses, courtesy shuttles, etc. Additionally, Landside oversees the inter-terminal transportation services provided by light rail and/or shuttle bus service and acts as a liaison between the Metropolitan Airports Commission and the Metropolitan Council for such services.

### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	2,110,079	2,157,162	2,380,530	223,368	10.4%
Administrative Expenses	85,995	80,307	59,352	(20,955)	-26.1%
Professional Services	19,384			0	0.0%
Utilities	7,203	7,200	10,704	3,504	48.7%
Operating Services/Expenses	9,852,147	10,626,840	10,732,437	105,597	1.0%
Maintenance	219,616	203,040	209,232	6,192	3.0%
Other	1,463	1,440	1,440	0	0.0%
Total Budget	12,295,885	13,075,989	13,393,695	317,706	2.4%
Full-time Equivalent (FTE) Total	34.5	35.5	37.5		

### **HIGHLIGHTS OF BUDGET**

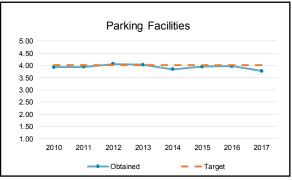
Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases, as well as the addition of two FTEs.
Administrative Expenses	Taxi traffic is has decreased. As a result, fewer taxi passenger brochures are expected to be distributed.
Utilities	The increase in Utilities is attributed to cell phone stipend needs.
Operating Services/Expenses	Operating Services/Expenses increases are attributable to increased fees built into multi-year contracts.
Maintenance	Maintenance expenses include two additional satellite restrooms needed for the new Transportation Network Company holding lot.

### 2017 SERVICE CENTER OBJECTIVE RESULTS

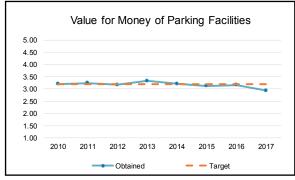
Objective:	Install a parking reservation system that would allow travelers to book and pay for parking in
	advance
Results:	Due to personnel and reorganization changes, no further developments took place during Q4.

# The Finance and Revenue Division will pick up this topic in 2018.

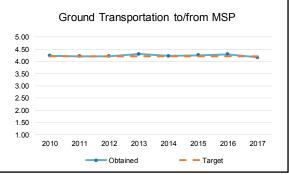
Objective:	Conduct a 2018 benchmarking study and plan to visit Phoenix, Denver, Dallas-Ft. Worth, Indianapolis, Tampa, Nashville, Raleigh Durham, and Baltimore-Washington International Airports, and Portland International Jetport
Organizational Strategic Goal: Organizational Strategic Objective:	Delight our passengers Reimagine and renew our airports to continually evolve our customer experience



Airport Service Quality Survey Score: 5-point scale (5 = excellent, 1 = poor)



Airport Service Quality Survey Score: 5-point scale (5 = excellent, 1 = poor)



Airport Service Quality Survey Score: 5-point scale (5 = excellent, 1 = poor)

# FACILITIES-TERMINAL 2

Facilities-Terminal 2 is responsible for daily operations management, maintenance, and planning of all MSP common-use facilities and related equipment, including all of Terminal 2, common use gates at Terminal 1, and U.S. Customs inspections facilities in both Terminal 1 and Terminal 2. The service center shares responsibility with the MAC Information Technology Department for planning, implementation, operation, and support of the many critical MAC common-use and shared-use computer systems and equipment.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	636,395	644,797	672,852	28,055	4.4%
Administrative Expenses	7,081	14,505	14,050	(455)	-3.1%
Professional Services				0	0.0%
Utilities	1,680	2,886	2,900	14	0.5%
Operating Services/Expenses	170,397	285,650	6,875	(278,775)	-97.6%
Maintenance	214,460	344,200	1,266,450	922,250	267.9%
Other	5,287	8,100	20,400	12,300	151.9%
Total Budget	1,035,301	1,300,138	1,983,527	683,389	52.6%
Full-time Equivalent (FTE) Total	9	9	9		

### **HIGHLIGHTS OF BUDGET**

- Personnel
   The increase in Personnel is attributable to wage structure adjustments and step increases.
  - Operating Services/ExpensesThe decrease in Operating Services/Expenses is attributable to<br/>appropriately reallocating of costs to the Maintenance category.MaintenanceThe increase in Maintenance expenses is attributable to appropriately<br/>reallocating costs from the Operating Services/Expenses category,
- Other
   increased maintenance costs for four gates added during 2017, and the costs associated with the expiration of the baggage handling system warranty. The budget increase covers a new combined contract for passenger boarding bridges maintenance, baggage handling system maintenance, and operations support services.
   Other

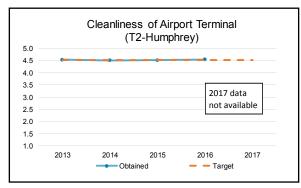
Terminal 2 Operations office.

### 2017 SERVICE CENTER OBJECTIVE RESULTS

**Objective:** Expand Terminal 2-Humphrey curbside check-in facilities to support increased use by Terminal-2 airlines

**Results:** The Terminal 2-Humphrey curbside check-in project was completed in Q3.

Objective:	Manage the successful startup of JetBlue operations at Terminal 2
Organizational Strategic Goal:	Grow and enhance air service at MSP
Organizational Strategic Objective	: Increase competition, attract new airlines, and expand service for non- stop destinations



Airport Service Quality Survey Score: 5-point scale (5 = excellent, 1 = poor)

# FACILITIES-TERMINAL 1

Facilities-Terminal 1 is responsible for the operation, maintenance, and cleaning of the Terminal 1 facilities and all MAC campus buildings, with oversight responsibility for the Energy Management Center and the Trades work groups. Facilities Management also provides management oversight for various service, operation, and management contracts. The service center also responds to both immediate and long-term tenant and public concerns. The department works with MAC Airport Development staff to ensure that Capital Improvement Projects are completed with the least amount of disruption to the traveling public and the terminal building operations, in order to maintain MSP at a level consistent with the expectations of its internal and external customers and partners.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	717,014	757,056	744,500	(12,556)	-1.7%
Administrative Expenses	9,599	10,000	10,000	0	0.0%
Professional Services	275,908	305,852	342,894	37,042	12.1%
Utilities	7,835	7,584	7,584	0	0.0%
Operating Services/Expenses	3,631,461	3,311,312	4,507,529	1,196,217	36.1%
Maintenance	25,014,697	25,860,088	24,370,443	(1,489,645)	-5.8%
Other	4,461	6,850	6,850	0	0.0%
Total Budget	29,660,975	30,258,742	29,989,800	(268,942)	-0.9%
Full-time Equivalent (FTE) Total	9	9	9		

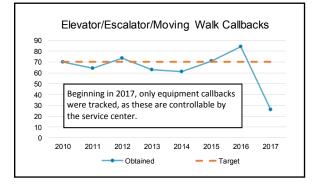
#### **HIGHLIGHTS OF BUDGET**

Personnel	The decrease in Personnel is attributable to vacancies due to employee turnover.
Professional Services	The primary increase in Professional Services expense is the contractual fee increase for the consultant who oversees the Elevator / Escalator / Moving Walk and Trams Operation & Maintenance contracts.
Operating Services/Expenses	The primary increases in the Operating Services/Expenses are the contractual increase for loading dock management services and expenses related to Super Bowl LII. Super Bowl expenses include additional porter service, janitorial work, and elevator carpet replacement.
Maintenance	The Maintenance expense decrease is attributable to aligning budgeted cleaning and bathroom supply costs to actual expenses, increased rubbish and recycling costs, vehicle fire extinguisher purchases, and scheduled fee increases for long-term contracts. These were offset by decreased janitorial costs resulting from a new janitorial contract.

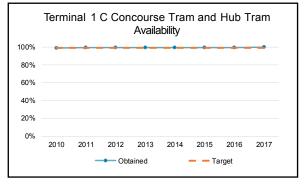
### 2017 SERVICE CENTER OBJECTIVE RESULTS

*Objective:* Throughout 2017, complete weekly restroom and terminal cleanliness inspections **Results:** 100% of weekly restroom inspections were completed.

Objective:	Develop and implement a key management database that will increase
	staff efficiency, reduce paper use for key approvals, and improve
	customer service for our internal and external stakeholders
Organizational Strategic Goal:	Innovate through opportunities in technology and sustainability
Organizational Strategic Objective	: Integrate sustainability into our culture



Number of times the vendor is called back to a unit for service for equipment-related failures, averaged by quarter



Average percent availability of both the C Concourse and Hub trams

# FACILITIES-ENERGY MANAGEMENT CENTER

The Energy Management Center (EMC) is responsible for the heating, ventilation, and air conditioning (HVAC) of all MAC facilities. A staff of 19 operating engineers provides 24/7 service. Staff operate and maintain boilers with jet fuel backup, chillers, cooling towers, and numerous miscellaneous components to provide a comfortable environment for all MSP customers, tenants, and staff. The EMC utilizes an Open Architectural Building Automation System (OABA) to operate and maintain the complex, growing airport HVAC systems, and monitors 200 carbon monoxide sensors spread around the MSP campus. The EMC responds to all incoming HVAC-related calls and keeps detailed records of gas, oil, water, and steam usage, as well as all repair work and preventative maintenance.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	1,654,453	1,742,131	1,829,547	87,416	5.0%
Administrative Expenses	3,460	4,338	4,013	(325)	-7.5%
Professional Services	44,770	45,630	47,911	2,281	5.0%
Utilities	7,177	9,820	7,177	(2,643)	-26.9%
Operating Services/Expenses	49,842			0	0.0%
Maintenance	1,741,812	1,805,241	1,869,597	64,356	3.6%
Other	6,627	19,193	12,280	(6,913)	-36.0%
Total Budget	3,508,140	3,626,353	3,770,525	144,172	4.0%
Full-time Equivalent (FTE) Total	23	22	22		

### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
Professional Services	The Professional Services expense increase in is due to the increased use of consulting engineers on construction projects and concessions projects
Utilities	The decrease in Utilities expense is related to a decrease in cell phone stipends.
Maintenance	The Maintenance expense increase is attributable to increases in service contracts and construction-related repairs.
• Other	Other expenses decreased to better align budgeted costs over a three-year period with actual expenditures.

### 2018 SERVICE CENTER OBJECTIVE RESULTS

**Objective:** Complete installation of all airflow diffusers in Terminal 1-Lindbergh and Terminal 2-Humphrey gate hold areas by the end of 2017

Results: By the close of Q4, 100% of the installation was complete

Objective:	Install long-life, high-efficiency air filters in all Terminal 1-Lindbergh air handling units that will accept the new-style filter; replace 25% of replaceable filters each quarter in 2018 with a goal of 100% replacement by year-end
Organizational Strategic Goal:	Innovate through opportunities in technology and sustainability
Organizational Strategic Objective:	Integrate sustainability into our culture



Employee accidents

# **TRADES - ADMINISTRATION**

Trades-Administration is responsible for the administration and coordination of the carpenters, electricians, painters, and plumbers. Trades-Administration works on construction projects, enforces the construction standards, conducts construction inspections, and oversees the computerized maintenance management system. Trades-Administration represents the Trades in the Capital Improvement Plan process and interfaces with consultants and vendors on behalf of the Trades group. Trades-Administration is also responsible for the oversight of the MSP Terminal 1 and Terminal 2 emergency generators and Uninterruptible Power Supply contracts.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	179,160	227,758	177,368	(50,390)	-22.1%
Administrative Expenses	10,397	7,700	7,790	90	1.2%
Professional Services	248,534	274,800	275,799	999	0.4%
Utilities	840	1,000	1,000	0	0.0%
Operating Services/Expenses	29,971	34,545	38,902	4,357	12.6%
Maintenance	265,593	439,653	387,795	(51,858)	-11.8%
Other	15,331	31,400	36,000	4,600	14.6%
Total Budget	749,825	1,016,856	924,654	(92,202)	-9.1%
Full-time Equivalent (FTE) Total	2	2	2		

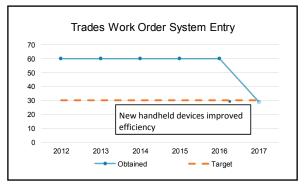
### **HIGHLIGHTS OF BUDGET**

• Pe	ersonnel	The decrease in Personnel is attributable to vacancies due to employee turnover and changes in step levels for positions with employee turnover.
• Op	perating Services/Expenses	The Operating Services/Expenses increase is attributable to an additional traffic signal that has been added to a MAC project.
• Ma	aintenance	The Maintenance expense decrease is attributable to efficiencies identified in the Honeywell maintenance contract.
• Ot	ther	The Other expense increase is attributable to planned furniture purchases for the Trades Building.

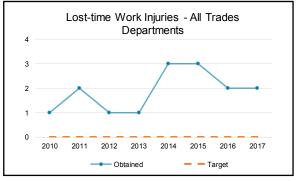
### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:	Develop and implement a paperless work order system for all Trades departments, to increase
	efficiency in providing quality customer service to those we serve
Results:	Meetings and discussions continued, relating to the development of a solution for an Enterprise One (E1) mobile Work Order application.

Objective:	Develop and implement a paperless work order system for all Trades departments, to increase efficiency in providing quality customer service to those we serve
Organizational Strategic Goal:	Delight our passengers
Organizational Strategic Objective:	Reimagine and renew our airports to continually evolve our customer experience



Total number of minutes per day spent by the Foreperson entering data into the Work Order System



Total number of on-the-job injuries sustained by all Trades departments combined

# **TRADES - ELECTRICIANS**

Trades-Electricians provides maintenance and repairs of most electrical equipment and lighting fixtures throughout the MSP campus and Reliever Airports system. Electricians are responsible for the maintenance and repair of all directional signage and runway/taxiway lighting to comply with specific Federal Aviation Administration regulations throughout all MAC airports. Trades-Electricians also maintains and tests all airfield lighting regulators, all emergency generator buildings, and all associated lighting and electrical work within MAC parking facilities. Responsibilities include all security gates and electronic card readers throughout the MAC's airports system, fire alarms, and oversight and repair responsibility for the Light Rail Transit Platform.

### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	1,958,860	2,115,799	2,177,525	61,726	2.9%
Administrative Expenses	888	300	250	(50)	-16.7%
Professional Services				0	0.0%
Utilities	17,375	20,642	20,000	(642)	-3.1%
Operating Services/Expenses	257,282	321,667	313,000	(8,667)	-2.7%
Maintenance	1,032,244	1,510,355	1,452,531	(57,824)	-3.8%
Other	3,797	31,600	31,900	300	0.9%
Total Budget	3,270,445	4,000,363	3,995,206	(5,157)	-0.1%
Full-time Equivalent (FTE) Total	19	19	19		

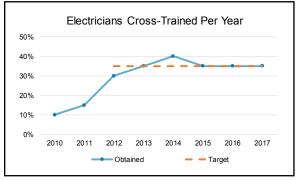
#### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
Administrative Expenses	The decrease in Administrative Expenses is attributable to aligning delivery expenses with a three-year average of actual spending.
Utilities	The decrease in Utilities Expenses is attributable to aligning the budgeted amount with a three-year average of actual spending. Additionally, VPN access for the General Foremen was factored in.
Operating Services/Expenses	The reduction in Operating Services/Expenses is attributable to aligning expenses with a the previous year's actual spending.
Maintenance	The decrease in Maintenance is attributable to the appropriate categorization of electrical permitting expenses as Other expenses.
• Other	The increase in Other expense is attributable to the appropriate categorization of electrical permitting expenses that were previously budgeted as Maintenance expenses.

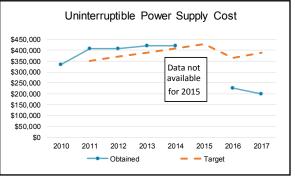
### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:	Complete weekly inspection of lighting fixtures in Terminal 1-Lindbergh and Terminal 2- Humphrey, and replace outages
Results:	Weekly inspections of lighting fixtures in Terminal 1-Lindbergh and in Terminal 2-Humphrey were completed and outages were replaced as soon as practicable.

Objective:	Make an initial response to all work orders within 48 hours of receipt of
	the order
Organizational Strategic Goal:	Delight our passengers
Organizational Strategic Objective:	Reimagine and renew our airports to continually evolve our customer experience



Percent of electricians cross-trained on a discipline or task they normally don't encounter



Total amount of the yearly contract spent on maintenance

# **TRADES - PAINTERS**

The primary role of Trades-Painters is to protect a multitude of surfaces from corrosion and deterioration to ensure a full service life to the surface. Additionally, MAC Painters maintain a clean, comfortable, visually pleasing, and safe environment for the traveling public and meet all Federal Aviation Administration (FAA)-mandated Airport Operations Area markings at MSP and the Reliever Airports. The Painters are responsible for all paint maintenance on buildings, for the correct markings used on public roadways and parking ramps, and for the maintenance of runways/taxiways in accordance with FAA regulations. The Painters insure that the most appropriate and safest materials are utilized and disposed of in an environmentally responsible manner. The sign shop within this service center is responsible for regulatory roadway, interior, and exterior signage; vehicle graphics; and security and directional signage at MSP and the Reliever Airports.

### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	940,071	981,559	1,033,191	51,632	5.3%
Administrative Expenses	72			0	0.0%
Professional Services				0	0.0%
Utilities	1,290	1,190	1,300	110	9.2%
Operating Services/Expenses				0	0.0%
Maintenance	225,812	299,527	298,742	(785)	-0.3%
Other	14,355	4,403	4,403	0	0.0%
Total Budget	1,181,601	1,286,679	1,337,636	50,957	4.0%
Full-time Equivalent (FTE) Total	10	9	9		

### HIGHLIGHTS OF BUDGET

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
Utilities	The increase is for new cellular and data device for MAC Paint Shop Foreman.

### 2017 SERVICE CENTER OBJECTIVE RESULTS

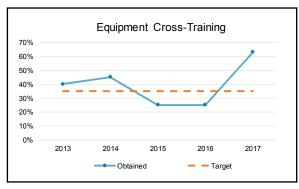
Objective: Reduce 2017 hazardous and non-hazardous waste 10% compared to 2016

**Results:** At the close of Q4, reported hazardous and non-hazardous waste held steady with the previous year; a 10% reduction was not achieved.

### 2018 SERVICE CENTER OBJECTIVE

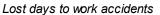
Objective:	Reduce hazardous and non-hazardous waste 10% compared to 2017
Organizational Strategic Goal:	Delight our passengers
Organizational Strategic Objective	: Reimagine and renew our airports to continually evolve our customer
	experience

### SERVICE CENTER PERFORMANCE MEASURES





Percentage of MAC Painters receiving equipment cross-training



# TRADES - CARPENTERS

Trades-Carpenters ensures that all of the MAC's terminals and facilities are safe, secure, and aesthetically pleasing for the MAC, its tenants, and the traveling public. This service center provides high-quality service to all MAC departments and airport tenants in a timely manner and at a cost savings. Responsibilities include repair and maintenance of a wide variety of facility finishes; securing and separating "non-secured" areas from "secured" areas; and specialty projects such as upholstery, cabinet making, office remodeling, and naming/ numbering doors and concession spaces with identification tags.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	975,487	1,026,205	982,703	(43,502)	-4.2%
Administrative Expenses	2,245	4,622	4,473	(149)	-3.2%
Professional Services				0	0.0%
Utilities	9,743	11,341	12,396	1,055	9.3%
Operating Services/Expenses				0	0.0%
Maintenance	277,411	251,795	308,164	56,369	22.4%
Other	4,930	11,487	27,698	16,211	141.1%
Total Budget	1,269,816	1,305,450	1,335,434	29,984	2.3%
Full-time Equivalent (FTE) Total	10	10	10		

#### **HIGHLIGHTS OF BUDGET**

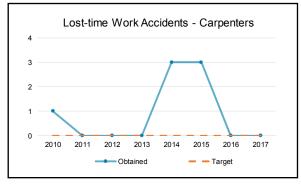
Personnel	The decrease in Personnel is attributable to vacancies due to employee turnover, offset by wage structure adjustments and step increases.
Administrative Expenses	The decrease in Administrative Expenses is attributable to cancelled publications.
Utilities	Utilities increase is attributable to smart phone upgrades and accessories, including cases and chargers.
Maintenance	Maintenance expense increases are attributable to increased costs to replace or repair doors, hardware, paper towel dispensers, toilet paper dispensers, and lighted mirrors in new restrooms.
• Other	Other expense increases are attributable to additional tools needed for the Carpenter Shop, including a table saw, drill press, and other minor hand tools.

### 2017 SERVICE CENTER OBJECTIVE RESULTS

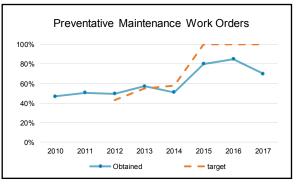
**Objective:** Complete monthly preventative maintenance of all automatic doors within Terminal 1-Lindbergh and Terminal 2-Humphrey

**Results:** All preventative maintenance on automatic doors was completed in Terminal 1.

Objective:	Complete preventative maintenance work orders to reduce service interruptions, down time, and call backs
Organizational Strategic Goal:	Delight our passengers
Organizational Strategic Objective:	Reimagine and renew our airports to continually evolve our customer experience



Total number of lost-time work accidents



Percentage of submitted work orders completed

# TRADES - PLUMBERS

Trades-Plumbers is responsible for the water supply available to MSP users, tenants, and MAC personnel. This is accomplished through the maintenance, repair, and ongoing preventive measures of the potable water systems, sanitary and storm sewer systems, building plumbing systems, irrigation systems, and fire sprinkler systems. The Plumbers are also responsible for completing plumbing inspections, locating appropriate utility lines, and reviewing plumbing schematics for new projects. Staff stays current with new plumbing technologies, processes, and efficiencies by attending training seminars on new equipment and tooling demonstrations throughout the year.

### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	1,447,478	1,639,251	1,657,986	18,735	1.1%
Administrative Expenses	2,282	4,200	4,200	0	0.0%
Professional Services	29,980	30,000	30,000	0	0.0%
Utilities	9,338	8,400	8,400	0	0.0%
Operating Services/Expenses	3,640		13,500	13,500	100.0%
Maintenance	305,670	403,160	410,150	6,990	1.7%
Other	15,998	14,960	11,500	(3,460)	-23.1%
Total Budget	1,814,386	2,099,971	2,135,736	35,765	1.7%
Full-time Equivalent (FTE) Total	10	9	9		

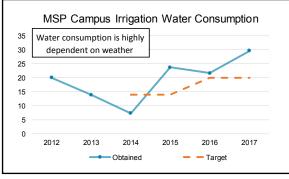
### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
Operating Services/Expenses	Increased Operating Services/Expenses are attributed to support of specialty equipment and expenses related to Super Bowl LII.
Maintenance	A slight increase in Maintenance is due partly to adjustments of maintenance procedures and rising costs of material.
Other	Other expenses decreased as a result of eliminating one-time expenses that were required in previous fiscal years.

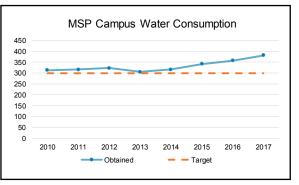
### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:	During 2017, replace 5% of existing drinking fountains within Terminal 1-Lindbergh and Terminal
	2-Humphrey with refillable bottle filling stations
Results:	During Q4, five bottle filling stations were installed in Terminal 2-Humphrey and one was
	installed in the Emergency Response Center.

Objective:	During 2018, replace 5% of existing drinking fountains within Terminal 1-Lindbergh and Terminal 2-Humphrey with refillable bottle filling stations
Organizational Strategic Goal:	Delight our passengers
•	Reimagine and renew our airports to continually evolve our customer experience



Total gallons, in millions, of irrigation water usage on the MSP campus



Total gallons of water, in millions, consumed on the Minneapolis-St. Paul International Airport campus\*

\*This graph contains a target line that indicates a maximum target value. The measures is met successfully when the actual value is below the target values.

# FIELD MAINTENANCE

Field Maintenance is responsible for pavement maintenance, pollution control, landscape/grounds maintenance, security fence and access gate maintenance, traffic control installation, signage installation, parking ramp maintenance, and refuse removal. Winter responsibilities include the removal of snow from runways, taxiways, ramps, aircraft parking areas, airside roadways, public roadways, terminal sidewalks, and MAC buildings. Maintenance personnel supervise contracted snow removal operators who remove snow from parking ramps and landside parking areas. Field Maintenance maintains and repairs a fleet of more than 500 vehicles and partners with other MAC departments to procure vehicles and related equipment.

### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	9,042,260	9,649,932	9,692,635	42,703	0.4%
Administrative Expenses	35,105	29,875	59,100	29,225	97.8%
Professional Services	27,720	56,000	132,000	76,000	135.7%
Utilities	19,836	22,396	21,700	(696)	-3.1%
Operating Services/Expenses	65,519	29,450	66,400	36,950	125.5%
Maintenance	4,645,900	4,707,300	4,890,200	182,900	3.9%
Other	92,211	66,460	74,600	8,140	12.2%
Total Budget	13,928,552	14,561,413	14,936,635	375,222	2.6%
Full-time Equivalent (FTE) Total	108	110	110		

### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
Administrative Expenses	The increase in Administrative Expenses is attributable to new office chairs, work stations for managers, and new crew room chairs and tables.
Professional Services	Professional Services increased due to strategic and fleet management planning needs.
Operating Services/Expenses	Operating Services/Expenses reflect increases due to rental equipment and supplies for Super Bowl LII.
Maintenance	Maintenance expenses increased due to winter chemical usage, tires, and airside treatment for sod areas.
Other	The Other expenses increase is attributable to meeting new Occupational Safety and Health Administration requirements for air filtration.

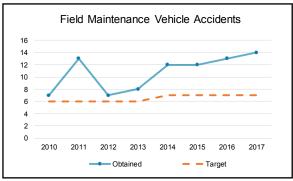
### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:	Invest in professional development to reflect the importance of Field Maintenance succession planning, allowing the MAC to provide top-quality service to entities operating at MSP
Results:	Opportunities were provided for managers to attend ICS training and supervisor training. Department members also attended the National Airports Conference, and Field Maintenance engaged employees who are new to the DPMU and began familiarization workshops and training.

Objective:	Ensure all department members attend monthly training meetings for
	work performance subject areas at least 75% of the time
Organizational Strategic Goal:	Be a model employer
Organizational Strategic Objective	Invest in training and professional development opportunities that align
	with our goals

Service Center Summaries

# SERVICE CENTER PERFORMANCE MEASURES



Total number of preventable vehicle accidents involving Field Maintenance vehicles\*

\*This graph contains a target line that indicates a maximum target value. The measures is met successfully when the actual value is below the target values.

# AIRSIDE OPERATIONS

Airside Operations' three primary tenets are regulatory compliance, safety, and operational efficiency. Airside Operations is responsible for ensuring that MSP is in compliance with federal and state regulations, particularly Federal Aviation Regulations Part 139-Airport Certification; conducts airfield safety inspections and determines the operating status of the airport; coordinates airfield activities with Federal Aviation Administration Air Traffic Control facilities and air carrier tenants. Airside Operations is responsible for managing the snow and ice control plan, the wildlife control program, construction safety, and the airfield driver's training/testing program. Airside Operations is the 24/7 non-emergency point-of-contact for MSP airport tenants.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	1,588,974	1,574,946	1,519,702	(55,244)	-3.5%
Administrative Expenses	68,557	102,315	104,189	1,874	1.8%
Professional Services	109,882	105,348	113,140	7,792	7.4%
Utilities	19,509	20,202	20,202	0	0.0%
Operating Services/Expenses	172,049	86,608	87,865	1,257	1.5%
Maintenance	24,158	22,000	12,000	(10,000)	-45.5%
Other	25,302	27,000	26,000	(1,000)	-3.7%
Total Budget	2,008,432	1,938,419	1,883,098	(55,321)	-2.9%
Full-time Equivalent (FTE) Total	16	16	15		

#### **HIGHLIGHTS OF BUDGET**

•	Personnel	The decrease in Personnel is a result of better aligning budgeted overtime costs with actual overtime costs.
•	Administrative Expenses	The increase is in part due to an increase in travel for two additional staff to the AAAE Great Lakes Chapter's Annual Conference in Alexandria, MN. The MAC is one of three hosts and we are expected to provide significant assistance in running the conference.
•	Professional Services	The increase is due to the expiration of the 3-year contract with USDA Wildlife Services and the anticipated increased cost of entering into a new contract for these services.
•	Operating Services/Expenses	The increase is due primarily to the contracted increase in annual service subscriptions.
•	Maintenance	Maintenance decreases are attributable to the MAC taking over maintenance of the MSP Drivers' Training Center, resulting in a reduction in contracted maintenance service expenses.
•	Other	The decrease is due to a projection of less equipment/supplies needed for wildlife management in 2018.

### 2017 SERVICE CENTER OBJECTIVE RESULTS

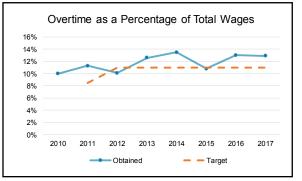
Objective:	Using data from MAC Airside Operations' and other systems, lead the collaboration with MAC	
	Information Technology and other departments on the design and initial development of an	
	Airfield Situational Awareness Dashboard	

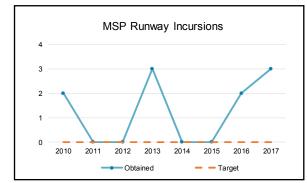
**Results:** Airside Operations continued to work with Information Technology and Public Safety on the development of a situational awareness dashboard. Airside has developed a Proof of Concept tool to show the look of an Airfield Situational Awareness Dashboard.

# 2018 SERVICE CENTER OBJECTIVE

Objective:	Work with the MAC Information Technology Department to replace the "end of life" Woolpert Electronic Logging and Inspection System with a new Airport Operations Database application
Organizational Strategic Goal:	Innovate through opportunities in technology and sustainability
Organizational Strategic Objective:	Modernize and accelerate technology use, enabling enterprise solutions

### SERVICE CENTER PERFORMANCE MEASURES





Overtime as a percentage of total department wages\*

Total number of vehicle/pedestrian runway incursions over which the MAC has control

\*This graph contains a target line that indicates a maximum target value. The measures is met successfully when the actual value is below the target values.

# FIRE

The MSP Airport Fire Department is responsible for providing aircraft rescue and firefighting (ARFF), structural firefighting, and first response emergency medical services to the MSP campus and some adjacent areas under agreement. The department is also responsible for fire code enforcement, investigation of all fires that occur within the service area, maintaining Federal Aviation Administration ARFF training and response requirements, and ensuring proper documentation for state and federal reporting requirements.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	4,611,921	4,964,954	5,337,084	372,130	7.5%
Administrative Expenses	10,574	19,085	59,815	40,730	213.4%
Professional Services	6,435	55,200	76,860	21,660	39.2%
Utilities	13,110	14,360	15,360	1,000	7.0%
Operating Services/Expenses	20,634	34,000	34,000	0	0.0%
Maintenance	5,198	4,600	5,100	500	10.9%
Other	161,420	145,500	124,500	(21,000)	-14.4%
Total Budget	4,829,293	5,237,699	5,652,719	415,020	7.9%
Full-time Equivalent (FTE) Total	46	50	51		

### **HIGHLIGHTS OF BUDGET**

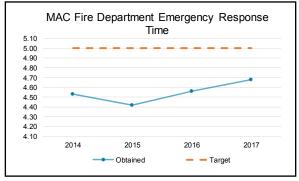
Personnel	Personnel increases are due to contracted wage adjustment and uniform allowances. Additionally, overtime expenses were increased to align with actual costs from previous years. One new FTE was approved.			
Administrative Expenses	Administrative Expenses increased to cover the off-site Aircraft Rescue Fire Fighting training in 2018. This required training includes travel for all firefighting personnel.			
Professional Services	Increase for Professional Services is attributable to additional fire protection plan reviews for increased construction projects throughout the MAC system.			
Utilities	The Utilities increase is due to increased cellular and data needs and costs.			
Maintenance	Maintenance increases are due to additional cost of cleaning supplies.			
• Other	The 2017 budget included a number of one-time purchases in the Other expenses category. As they are not included in the 2018 budget, the Other category reflects the reduction in expenses.			

### 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective:Conduct joint response training for complex incidents with MAC Fire Department response<br/>partners, including the MAC Police Department, Allina Ambulance, and our mutual aid partnersResults:The Fire Department conducted a Fuel Response Exercise with the Environment, Field<br/>Maintenance, and Swissport Fueling; Fire and EMS response and staffing plans were finalized<br/>with Allina for Super Bowl LII

Objective:	Develop an implementation plan to expand the inventory control project to include fire extinguishers, personal protective equipment, and other inspection programs
Organizational Strategic Goal:	Innovate through opportunities in technology and sustainability
Organizational Strategic Objective:	Modernize and accelerate technology use, enabling enterprise solutions

# SERVICE CENTER PERFORMANCE MEASURES



Average response time to all emergencies from time of dispatch to arrival on scene, in minutes\*

\*This graph contains a target line that indicates a maximum target value. The measures is met successfully when the actual value is below the target values.

# POLICE

With public service as our foundation, every member of the Airport Police Department is committed to the preservation of peace, order, and safety. We are dedicated to the protection of life and property, the prevention of crime, and the deterrence of terrorism. Our Emergency Communications Center (ECC) is the 911 center for the MSP airport community. ECC staff make critical decisions to ensure the safety of both the traveling public and public safety personnel. The department's vision is to be the standard of excellence in aviation policing throughout North America.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	12,478,840	13,387,167	14,747,581	1,360,414	10.2%
Administrative Expenses	218,092	285,582	290,382	4,800	1.7%
Professional Services	95,527	62,824	96,906	34,082	54.2%
Utilities	83,841	74,984	74,984	0	0.0%
Operating Services/Expenses	750,155	1,196,875	1,842,382	645,507	53.9%
Maintenance	29,958	30,548	58,677	28,129	92.1%
Other	373,246	342,651	254,888	(87,763)	-25.6%
Total Budget	14,029,658	15,380,631	17,365,800	1,985,169	12.9%
Full-time Equivalent (FTE) Total	129	137	141		

### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases, as well as the addition of FTEs.
Administrative Expenses	The Administrative Expenses category increase is attributable to improvements scheduled for the K9 training building, in-home kennels for Police and TSA K9s, and a 10-year Airport Watch commemorative coin.
Professional Services	The increase in Professional Services expense is attributable to the addition of public safety ministries and background check consultants.
Operating Services/Expenses	Operating Services/Expense increases are a result of scheduled annual contract increases.
Maintenance	Maintenance expense increases are attributable to the purchase of 14 automated external defibrillators and additional security equipment.
• Other	The decrease in Other expenses is due to the removal of projects completed in previous fiscal years.

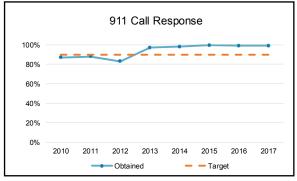
## 2017 SERVICE CENTER OBJECTIVE RESULTS

Objective: Continue to improve upon the MSP public area protection initiative, which is focused on deterrence and rapid response to critical incidents that could occur in public mass gathering locations at MSP
 Results: During Q4 we maintained a greater levely of highly-visible staffing in public areas through a mixture of grant-funded overtime, reimbursed overtime, and realizing additional headcount approved by the Commission for 2017. This, in addition to training provided earlier in the year on active assailants, insider threats, and diffusion strategies prepared the airport community and the Airport Police Department for Super Bowl LII and beyond.

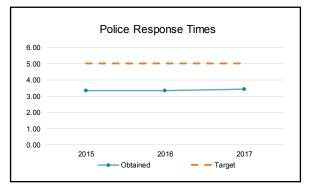
## 2018 SERVICE CENTER OBJECTIVE

(	Dbjective:	Participate in the planning, training, and execution of MSP's tri-annual emergency drill; exercise the Continuity of Operations Plan for the Emergency Communications Center; continue to work with the MSP Emergency Manager on the development of evacuation plans for both terminals; and sponsor training for general airport staff on personal and airport safety and security
	Drganizational Strategic Goal: Drganizational Strategic Objective:	Keep our airports safe and secure Engage, support, and expand emergency preparedness and response
C	Organizational Strategic Objective:	Engage, support, and expand emergency preparedness and re training for the airport community

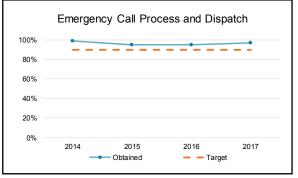
# SERVICE CENTER PERFORMANCE MEASURES



Percentage of 911 calls answered in 10 seconds or fewer, per year



Response times, in minutes, from dispatch to arrival for Priority 1 and Priority 2 calls



Percentage of emergency calls processed and dispatched within 60 seconds, per year

# **RELIEVERS - ADMINISTRATION**

The Reliever Airports Department is responsible for the operation, management, and maintenance of the MAC's six reliever airports. Staff is also responsible for the administration of over 800 tenant leases and contracts on the aiport properties.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	758,457	742,611	830,385	87,774	11.8%
Administrative Expenses	12,036	23,575	23,725	150	0.6%
Professional Services		45,000	45,000	0	0.0%
Utilities	7,218	5,880	6,720	840	14.3%
Operating Services/Expenses	5,772	1,500	1,500	0	0.0%
Maintenance				0	0.0%
Other				0	0.0%
Total Budget	783,483	818,566	907,330	88,764	10.8%
Full-time Equivalent (FTE) Total	7	8	8		

#### **HIGHLIGHTS OF BUDGET**

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases, the full-year impact of one position that was unfilled during much of 2017, and over-time needs for Super Bowl LII.
Utilities	The increase in Utilities expenses is attributable to increased cell phone and Wi-Fi hot spot requirements of staff.

## 2017 SERVICE CENTER OBJECTIVE RESULTS

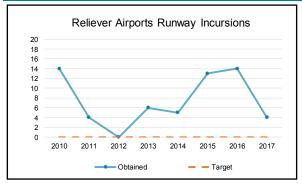
**Objective:** Collaborate with internal and external stakeholders on a plan to manage general aviation aircraft arriving to and departing from MAC airports during Super Bowl LII

**Results:** During Q4, the Reliever Airports department continued to meet at least once per week with internal and external stakeholders regarding plans for the 2018 Super Bowl. These meetings addressed facility capabilities, arrival/departure rates, aircraft and automobile maneuvering and parking, aircraft deicing, and security.

### 2018 SERVICE CENTER OBJECTIVE

Objective:Implement a departmental employee recognition programOrganizational Strategic Goal:Be a model employerOrganizational Strategic Objective:Cultivate an engaged workforce

# SERVICE CENTER PERFORMANCE MEASURES



Total vehicle/pedestrian runway incursions, across all MAC-owned Reliever Airports

# **RELIEVERS - ST. PAUL**

Relievers Airport staff is responsible for the operation, maintenance, and administration of the St. Paul Airport. Staff manages the properties, including the administration of leases. The staff also responds to tenant, airport user, and community issues and concerns.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	594,378	650,413	675,999	25,586	3.9%
Administrative Expenses	7,501	4,050	4,250	200	4.9%
Professional Services	12,074	15,000	15,000	0	0.0%
Utilities	2,448	1,360	1,800	440	32.4%
Operating Services/Expenses	9,547	8,200	57,000	48,800	595.1%
Maintenance	152,112	159,430	163,200	3,770	2.4%
Other	921	1,200	1,300	100	8.3%
Total Budget	778,982	839,653	918,549	78,896	9.4%
Full-time Equivalent (FTE) Total	7	7	7		

•	Personnel	The increase in Personnel is attributable to wage structure adjustments, step increases, and over-time needs for Super Bowl LII.
•	Utilities	Increased Utilities expenses is attributable to increased cell phone stipends.
•	Operating Services/Expenses	The increased Operating Services/Expenses are related to Super Bowl LII.

# **RELIEVERS - LAKE ELMO**

Relievers Airport staff is responsible for the operation, maintenance, and administration of the Lake Elmo Airport. Staff manages the properties, including the administration of leases. The staff also responds to tenant, airport user, and community issues and concerns.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	100,430	109,735	113,812	4,077	3.7%
Administrative Expenses	494	290	320	30	10.3%
Professional Services	12,074	12,000	12,000	0	0.0%
Utilities	846	453	616	163	36.0%
Operating Services/Expenses				0	0.0%
Maintenance	23,880	41,000	43,600	2,600	6.3%
Other	43	500	500	0	0.0%
Total Budget	137,767	163,978	170,848	6,870	4.2%
Full-time Equivalent (FTE) Total	1	1	1		

- Personnel
   The increase in Personnel is attributable to wage structure adjustments and step increases.
- Utilities Increased Utilities expenses is attributable to increased cell phone stipends.

# **RELIEVERS - AIRLAKE**

Relievers Airport staff is responsible for the operation, maintenance, and administration of the Airlake Airport. Staff manages the properties, including the administration of leases. The staff also responds to tenant, airport user, and community issues and concerns.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	105,728	102,529	110,247	7,718	7.5%
Administrative Expenses	192	361	367	6	1.7%
Professional Services	12,074	12,500	12,500	0	0.0%
Utilities	820	617	617	0	0.0%
Operating Services/Expenses				0	0.0%
Maintenance	19,412	24,945	25,629	684	2.7%
Other	369	450	456	6	1.3%
Total Budget	138,594	141,402	149,816	8,414	6.0%
Full-time Equivalent (FTE) Total	1	1	1		

### **HIGHLIGHTS OF BUDGET**

Personnel

The increase in Personnel is attributable to wage structure adjustments, step increases, and over-time needs for Super Bowl LII.

# **RELIEVERS - FLYING CLOUD**

Relievers Airport staff is responsible for the operation, maintenance, and administration of the Flying Cloud Airport. Staff manages the properties, including the administration of leases. The staff also responds to tenant, airport user, and community issues and concerns.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	298,738	321,622	350,856	29,234	9.1%
Administrative Expenses	1,176	1,270	1,285	15	1.2%
Professional Services	12,074	12,500	12,500	0	0.0%
Utilities		617	1,175	558	90.4%
Operating Services/Expenses			40,000	40,000	100.0%
Maintenance	52,152	77,650	78,860	1,210	1.6%
Other	185	500	500	0	0.0%
Total Budget	364,325	414,159	485,176	71,017	17.1%
Full-time Equivalent (FTE) Total	4	4	4		

Personnel	The increase in Personnel is attributable to wage structure adjustments, step increases, and over-time needs for Super Bowl LII.
Utilities	The increase in Utilities expenses is attributable to increased cell phone and Wi-Fi hot spot requirements for service center staff.
Operating Services/Expenses	The Operating Services/Expenses increase is due to materials required for the Super Bowl. This will include deicing agent recovery, as well as airport safety and security needs.

# **RELIEVERS - CRYSTAL**

Relievers Airport staff is responsible for the operation, maintenance, and administration of the Crystal Airport. Staff manages the properties, including the administration of leases. Staff also responds to tenant, airport user, and community issues and concerns.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	279,921	288,955	312,570	23,615	8.2%
Administrative Expenses	967	2,125	1,435	(690)	-32.5%
Professional Services	12,630	12,000	12,074	74	0.6%
Utilities	870	750	1,249	499	66.5%
Operating Services/Expenses	96			0	0.0%
Maintenance	64,406	61,900	67,035	5,135	8.3%
Other	13	500	500	0	0.0%
Total Budget	358,903	366,230	394,863	28,633	7.8%
Full-time Equivalent (FTE) Total	3	3	3		

Personnel	The increase in Personnel is attributable to wage structure adjustments, step increases, and over-time needs for Super Bowl LII.
Administrative Expenses	The decrease in Administrative Expenses reflects the reduction of one- time expenses from previous fiscal years.
Utilities	The increase in Utilities expenses is attributable to increased cell phone requirements for service center staff.
Maintenance	Maintenance expenses increased to reflect a three-year average of actual summer fencing and landscape turf expenses.

# **RELIEVERS - ANOKA COUNTY-BLAINE**

Relievers Airport staff is responsible for the operation, maintenance, and administration of the Anoka County-Blaine Airport. Staff manages the properties, including the administration of leases. Staff also responds to tenant, airport user, and community issues and concerns.

#### **BUDGET SUMMARY**

	2016 Actual	2017 Budget	2018 Budget	\$ Variance	% Variance
Personnel	264,505	283,497	299,671	16,174	5.7%
Administrative Expenses	2,417	1,325	1,625	300	22.6%
Professional Services	12,074	28,000	28,000	0	0.0%
Utilities	831	1,300	650	(650)	-50.0%
Operating Services/Expenses	151,880	153,000	206,500	53,500	35.0%
Maintenance	64,630	77,000	86,200	9,200	11.9%
Other	30,768	700	800	100	14.3%
Total Budget	527,104	544,822	623,446	78,624	14.4%
Full-time Equivalent (FTE) Total	3	3	3		

Personnel	The increase in Personnel is attributable to wage structure adjustments and step increases.
Utilities	The decrease in Utilities expenses is attributable to decreased cell phone requirements for service center staff.
Operating Services/Expenses	The increased Operating Services/Expenses is attributable to Super Bowl LII.
Maintenance	Maintenance expenses increased due to additional airfield and cleaning supply needs.

# Statistics & Informative Facts

The Statistics and Informative Facts sections are:

- 1. Historical Operating Revenue/Operating Expense and Facility Comparisons
- 2. Activity/Operations Statistics
- 3. National Comparisons
- 4. Informative Facts about Minnesota

### Historical Operating Revenue/Operating Expense and Facility Comparisons

The table below compares the years 2007 and 2016 and shows the changes that occurred when comparing the percentage in each category to the total. The average annual percentage increase in Total Operating Revenue from 2007 to 2016 of 4.0% is the same as the annual percentage increase in Total Operating Expenses and Operating Income from 2007 to 2016 which are both also 4.0%.

	200	7	201	6	2	007-2016	Annual
		% of		% of	C	Change	%
	\$	Total	\$	Total		\$	Change
Operating Revenue							
Airline Rates & Charges	\$ 75,294	31.6%	\$ 112,653 *	33.2%	\$	37,359	4.6%
Concessions	113,794	47.8%	160,691	47.4%		46,897	3.9%
Rentals/Fees	0	0.0%	48,473	14.3%		48,473	
Utilities & Other Revenue	0	0.0%	17,115	5.0%		17,115	
Other	49,163	20.6%	0	0.0%		(49, 163)	3.3%
Total Operating Revenue	\$ 238,251	100.0%	\$ 338,932	100.0%	\$	100,681	4.0%
Operating Expenses							
Personnel	\$ 56,278	47.3%	\$ 78,048	46.2%	\$	21,770	3.7%
Administrative Expenses	1,538	1.3%	1,723	1.0%		185	1.3%
Professional Services	4,474	3.8%	6,217	3.7%		1,743	3.7%
Utilities	16,466	13.8%	18,816	11.1%		2,350	1.5%
Operating Services	15,437	13.0%	23,389	13.8%		7,952	4.7%
Maintenance	21,527	18.1%	36,319	21.5%		14,792	6.0%
Other	3,238	2.7%	4,411	2.6%		1,173	3.5%
Total Operating Expenses (excludes depreciation and noi	118,958 nortization)	100.0%	\$ 168,923	100.0%		49,965	4.0%
Operating Income (Loss)	\$ 119.293		\$ 170.009		\$	50,716	4.0%

## **Operating Revenue**

In 2008, a major upgrade in the financial software program provided an opportunity to improve revenue reporting. This affected the various individual lines of revenue being reclassified into new categories and the reclassifications are not reflected in the data for 2007 (although the total is accurate). The following explanations for the changes in revenue are general in the categories represented. Changes in revenue are as follows:

- The average annual percentage increase for Airline Rates and Charges is 4.6% between the years of 2007 and 2016. This is due in part to landing fees and expanded terminal facilities necessary to accommodate the growth in passenger activity between 2007 and 2016. Landing fees are calculated on a breakeven basis with revenue and expense being equal. The increase between 2007 and 2016 also results from changes in the 2007 Amendment to the Airline Use Agreement and new facilities that have become operational. This category generally maintains the largest growth.
- Since 2008, Terminal 2 common use rates and other fees associated with non-signatory airline landing and ramp fees are included in Airline Rates and Charges. (See Operating Budget Revenue.)
- The Concessions category increased 3.9% as a result of increasing auto parking fees, facilities and changes/renewals to the Auto Rental contracts and separate concession/contract agreements with various firms to operate concessions in the terminal building. In addition, the introduction of transportation network companies is bringing in new revenue.

The annual average percentage increase of 3.3% is in the Other Revenue category (combines Rentals/Fees and Utilities & Other Revenue). In 2008 the Other category was separated into two new components, Rentals/Fees and Utilities and Other Revenue. Due to the conversion of data in the new financial software system, the breakout of this revenue for the years prior to 2008 would be difficult to determine. Therefore, for purposes of this explanation, these numbers have been combined. The increase is attributable to building rentals including the Federal Express and UPS building/facilities, Terminal 2 common use rates and other fees associated with non-signatory airline landing and ramp fees that were included in this category in 2005 through 2007. However, as of 2008 this revenue is included in Airline Rates and Charges. (See Operating Budget Revenue.)

## **Operating Expenses**

Expense changes are as follows:

- Personnel expenses increased from 2007 to 2016 by \$21.8 million. This equates to an average annual increase of 3.7%. Full Time Equivalents (FTEs) in 2007 were at 551.5 while FTE positions in 2016 were at 604.5. This is a direct result of a new runway, terminal 1-Lindbergh and Terminal 2-Humphrey expansions as well as a number of other facilities. Information Technology staff has increased substantially in later years to stay ahead of new and emerging technology.
- Administrative Expenses had an average annual increase of 1.3% as a result of the higher costs related to travel expenses and computer software for the growing technology needs of the airport.
- Professional Services increased 3.7% when comparing 2007 actual expenses to the total expenses for 2016. The majority of the increase is related to consulting for computer related situations, general legal service and construction and environmental engineering.
- Utilities increased 1.5% between 2007 and 2016 and reflect the higher costs of natural gas and electricity along with an increase in facilities.
- Operating Services increased 4.7% between the years 2007 and 2016 due to additional contracts such as implementation of porter service in baggage claim and management of shuttle buses and queue lines as well as increases in service agreements.
- Maintenance increased 6.0% between 2007 and 2016 as a result of additional facilities including Runway 17/35. Contracted maintenance also increased for building mechanical areas, including automated people mover, elevator, escalator and moving walks.
- Other Expenses increased 3.5% primarily as a result of increasing costs for minor assets such as computers annualized between the years 2007 and 2016.



Facility Expansion Terminal 1-Lindbergh and Terminal 2-Humphrey						
	2007	2017	Increase	% Increase		
Terminal 1-Lindbergh & Regional Terminal Square Footage	2,827,238	2,841,143	13,905	0.5%		
Number of Gates (Aircraft Loading Positions)	117	104	-13	-11.1%		
Ramp Lineal Footage	11,302	11,001	-301	-2.7%		
Terminal 2-Humphrey						
Terminal Square Footage	398,134	626,165	228,031	57.3%		
Number of Gates	10	14	4	40.0%		
Parking (All Facilities)	19,677	22,123	2,446	12.4%		

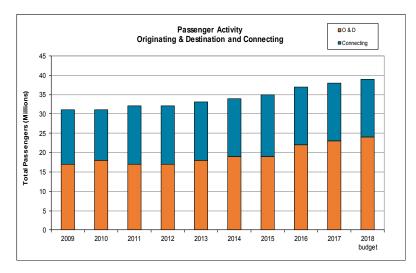
The chart above compares the development and expansion of the major facilities at MSP International Airport between 2007 and 2017. The significance of this growth impacts both revenue and expenses. New facilities occupied by tenants will continue to generate additional income. Expenses include maintenance (both labor and materials), repairs, utilities, security and administrative costs. All sections of the MAC are impacted by changes in facilities.

The following table identifies major new facilities that have been completed since 2008.

New Facilities	Closing Date	New Facilities	Closing Date
St. Paul Airport Runway Improvements	2008	I-494/34 <sup>th</sup> Ave. Interchange (Diverging Diamond)	2013
HHH Terminal Parking Expansion	2008	Concourse G Roof Replacements	2013
St. Paul Airport Runway Safety Area	2008	North Side Storm Sewer (Ponds 3 & 4)	2013
Perimeter Fence/Gate Barrier System	2008	Post Road Fuel Farm Fire Protection Improvement	2013
St. Paul Airport-Dike Excavation	2008	Conveyance System Upgrades	2013
Runway 12L/30R Reconstruction - Segment 2	2009	2014 Pavement Rehabilitation-Aprons	2014
North/South Runway-Bloomington Land Acquisition	2009	Terminal 1-Lindbergh Checked Baggage Inspection system	2014
HHH Terminal Parking Facility Expansion	2009	Terminal 1-Lindbergh Bag Claim Fire Protection System	2014
St. Paul Airport - Flood Protection: Perimeter Dike	2009	Terminal 2-Humphrey Auto Rental Facility	2014
Lindbergh Sprinkle System - Phase 3	2009	2012iVISN Projects (CCTV) Phase 1&2, Camera Replacements	2014
MUFIDS Phase 2	2010	Solar Panels on Blue/Red Parking Ramp	2015
Lindbergh Terminal Carpet	2010	Terminal 1-Lindbergh FIS Expansion Gate 8 Holding Room	2015
HHH Skyway Expansion	2010	2014 Airline Accomodations	2015
Flying Cloud Airport -Runway 10R/289L Extension	2010	2014 iViSN-CCTV Improvements	2015
2008/2009 Part 150 Noise Sound Insulation Program	2010	2015 Terminal 1 Modular Cooling Tower Installment	2015
Concourse G Expansion Site Preparation	2011	Terminal 2-Humphrey Checked Baggage Inspection System	2016
Taxiway C Extension to HHH Remote	2011	Terminal 2-Humphrey Gate Expansion	2016
Lindbergh Sprinkle System - Phase 4	2011	Terminal 1-Lindbergh Checkpoint Consolidation	2016
FAA Building Upgrades	2011	Terminal 1-Lindbergh 2014/2015 Restrooms Upgrade	2016
2008/2012 Part 150 Noise Sound Insulation Program	2012	Solar Panels on Terminal 2-Humphrey Parking Ramp	2016
Terminal 2-Humphrey Phase A Security Checkpoint	2012	2015 Pavement Rehabilitation-Aprons	2016
Terminal 2-Humphrey Fuel Facility Relocation	2012	2016 Passenger Boarding Bridge-Phase 2	2017
Terminal 1-Lindbergh Folded Plate Drain Roof Repair	2012	2016 Terminal 1-Lindbergh Restrooms Upgrade	2017
Perimeter Fence Security Improvement	2012	2016 iViSN (CCTV) Improvements	2017
Terminal 1-Lindbergh Jet Bridge Replacements	2012	2016 Concourse A/B Pre-Conditioned Air Upgrades	2017
Terminal 1-Lindbergh South Baggage Screening – Phase 2	2013	2016 Food Court Service Elevator Replacement	2017
T Date Center Facility – Phase 1 & 2	2013	2017 Automated Security Lanes (ASLs)	2017
Terminal 2-Humphrey Apron Expansion	2013	2017 Parking Structure Rehabilitation	2017

# **Activity/Operations Statistics**

This section contains the historical and forecasted levels of activity for the period 2009 through 2018 in the MAC's system of airports.



The above chart illustrates passenger activity that occurred at MSP International Airport during the time period 2009 to 2018. The following highlights recent activity affecting passenger activity.

- 2009 Worst recession since the Great Depression yielded 1.6 million fewer passengers
- 2013 Increase in passengers due to a stronger economy
- 2018 Budget projects an increase in passenger activity of 2% over 2017 based upon airline projections and a stronger economy

	Passenger	Type 2014 to	2018		
	2014	2015	2016	2017	2018
	Actual	Actual	Actual	Actual	Budget
Passenger Type					
Enplaned	9,298,618	9,791,389	10,500,930	11,032,337	11,252,984
Connecting	15,818,190	15,878,034	15,319,644	14,705,634	14,999,747
Deplaned	8,972,640	9,825,002	11,684,947	12,296,370	12,542,297
Total Passengers	34,089,448	35,494,425	37,505,521	38,034,341	38,795,028

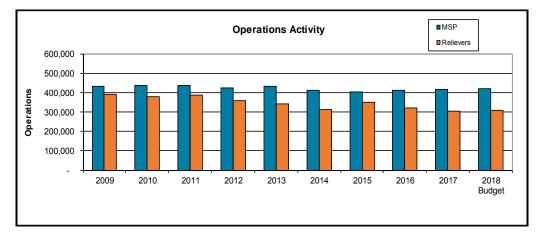
Estimates of passenger activity form an important element in forecasting revenue each year. The above chart represents actual passenger statistics for 2014 through 2017 with an estimate for the 2018 budget. The following categories are each used in a specific manner when calculating revenue:

- Enplaned (originating) passengers plus connecting passengers are used in forecasting most concession revenue.
- Deplaned (final destination) passengers are used in the process of estimating auto rental revenue.
- Enplaned (originating) passengers, excluding connecting, are used in estimating common use and carrousel/conveyor, porter services and queue line management percentages for billing the airlines.

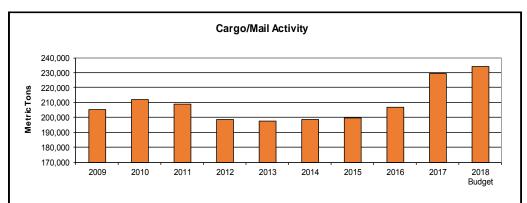


Delta Air Lines Operations at Terminal 1-Lindbergh

The following Operations Activity chart depicts the total operations activity for both the Reliever Airports and MSP International. An operation represents one takeoff or landing. MSP operations have declined steadily in past years as shown in the below chart due to airline bankruptcies, acquisitions, the recession and aircraft size. The 2018 budget is optimistic and is based upon prior year operations as airlines are flying larger aircraft with greater seating capacity.



The Cargo/Mail Activity Chart shows a decrease in activity from 2010 to 2013 as a result of shipments made via truck or rail due to costs and security, airline bankruptcy issues, and the economy. Cargo and mail delivery has risen since 2014 and experienced an even greater increase in 2017 as a result of increased shipping from consumer online shopping. The 2018 budget assumes an increase in this activity.





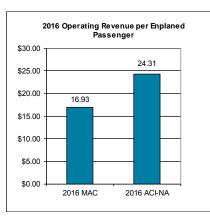
isitor Planes Parked at Reliever Airports During/ Super Bowl LII

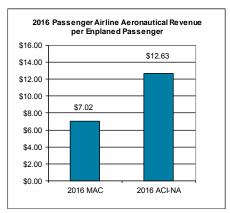
# National Comparisons

The below national comparisons will be in revenue and other areas. The information presented was obtained from the National Airport Survey prepared by Airports Council International-North America (ACI-NA) dated October 2017. This survey grouped hub airports into three categories: large, medium, and small. MSP is considered a large hub airport.

## **Industry Revenue Comparisons**

Revenue per Enplaned Passenger and Concessions Revenue are shown below. The following charts compare the MAC's revenue with ACI-NA survey results for 2016:



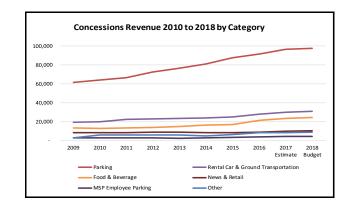


Operating Revenue per Enplaned Passenger compares the MAC's revenue of \$16.93 per enplaned passenger to other large hub airports of \$24.31. The difference is primarily attributable to the MAC's lower operating costs as these costs are used to calculate airline rates and charges.

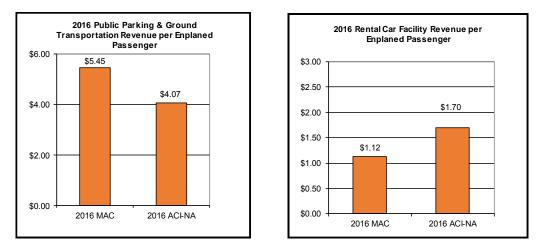
Passenger Airline Aeronautical Revenue per Enplaned Passenger in the above chart measures how much airlines pay the airport on a per enplaned passenger basis. Cargo revenue is not included. The MAC's ratio is below the median by \$5.61/enplanement. The primary reason for this difference is the MAC's lower operating costs. In addition, the Third Amendment for the airlines established a concessions credit which also lowers the airline cost. The amended Airline Use Agreement, due to airline bankruptcies, allows for a change in rate methodology, lease adjustments, etc. See Operating Budget Revenue section for further details.

The following table and chart presents historical concession revenues from 2010 to 2016, estimate for 2017 and the 2018 budget. The largest groups of concession revenue are Parking and Rental Car and Ground Transportation. See Operating Budget Revenue for additional details.

2018 Budget Concession Rev	enues						
(\$ = 000)							
		Rental Car & Ground	Food &		MSP Employee		
Year	Parking	Transportation	Beverage	News & Retail	Parking	Other	Total
2010	63,682	19,616	12,957	8,028	2,469	5,752	112,50
2011	66,612	22,246	13,398	8,373	2,578	5,585	118,79
2012	72,621	22,574	13,808	8,607	2,929	5,860	126,399
2013	76,569	23,133	14,743	8,489	2,414	5,973	131,32
2014	80,658	23,751	16,128	8,245	2,917	4,745	136,444
2015	87,578	24,694	16,836	8,191	3,328	6,266	146,89
2016	91,235	27,783	21,044	8,702	3,653	8,274	160,69
2017 Estimate	96,300	29,740	23,037	9,969	4,158	8,300	171,50
2018 Budget	97,469	30,968	24,023	10,286	4,158	8,591	175,49

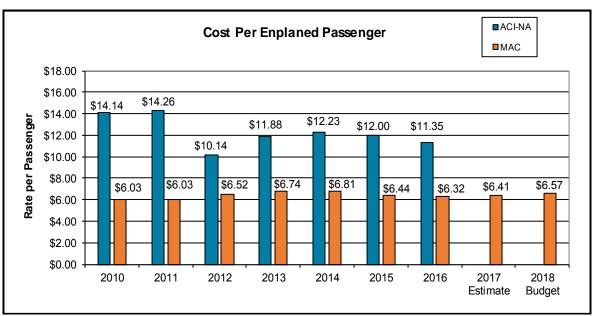


The following two charts represent MSP's comparison with other large hub airports for Parking and Ground Transportation and Rental Car Facility per Enplaned Passenger. MSP, in 2016, was higher than the national average for parking and ground transportation by \$1.38. However, MSP is lower in generating revenue from rental car facilities by \$0.58.



# **Industry Comparisons - Other**

The following section compares the MAC to industry performance ratios. These ratios are based on 2016 financial and operating data (the most recent available) and have been used for purposes of comparison. All MAC data are based upon actual 2016 information.



57%

2016 ACI-NA

**Operating Ratio** 

58%

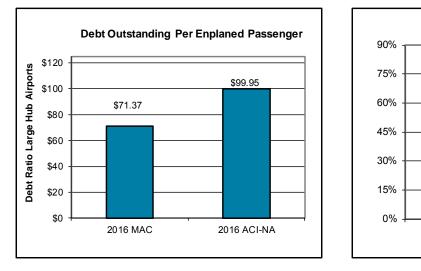
2016 MAC

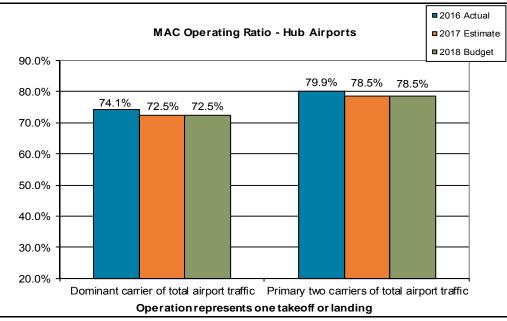
The previous chart, Cost per Enplaned Passenger, historically compares MSP's operating expenses for airlines in the airfield, ramp, terminal buildings and international facilities per enplaned passenger to the average cost per enplaned passenger as indicated in the ACI-NA report. In 2016, the MAC's expense of \$6.32 per passenger, which is in the lower third of large hub airports, is less than the 2016 national average of \$11.35 for large hub airports and is attributable to the MAC's lower operating costs.

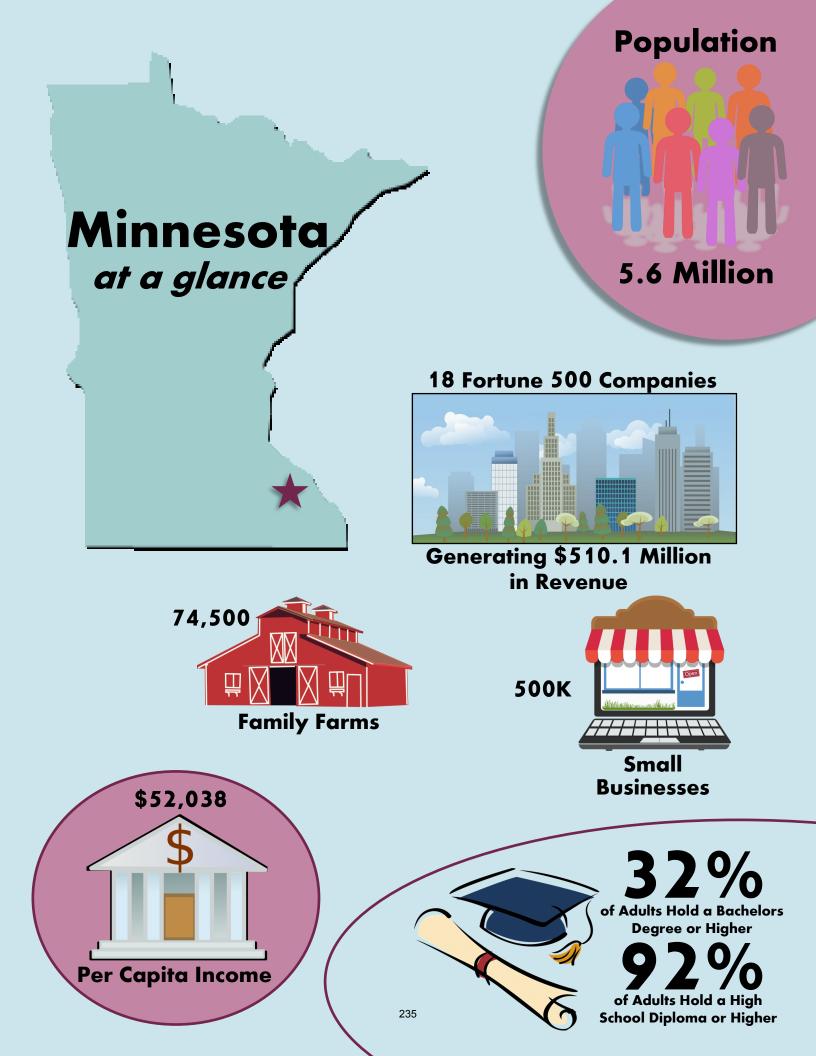
Debt Outstanding per Enplaned Passenger is calculated by dividing total outstanding General Airport Revenue Bond (GARB) debt by the number of enplaned passengers. The chart below uses the average for Debt per Enplaned Passenger as published by the ACI-NA for large hub airports. The MAC's ratio of debt/ enplaned passenger is below the industry average due to bond refundings.

The 2016 Operating Ratio is calculated by dividing total operating expenses, excluding depreciation, by total operating revenues. As shown below, the MAC's operating ratio indicates that operating expenses are a slightly higher percentage of the total operating revenue than the national average. The Commission strives to keep costs low.

The dominant carrier at MSP is Delta Air Lines. As shown below, the 2018 budget is projecting no change in the Delta percentages from the 2017 estimate. The second largest carrier in 2016 was American Airlines with 5.9% of total airport traffic.







## Informative Facts about Minnesota

Minnesota is a dynamic and flourishing state for a variety of reasons. A number of Fortune 500 companies are located within the state as Minnesota's culture promotes financial prosperity. The Minnesota education rates exceed the national average which, in turn, reduces the state unemployment rate, increases per capita income and provides the opportunity to choose from many large employers for employment. In addition, the Minneapolis-St. Paul International Airport is ranked among the top airports in a number of areas. Minneapolis-St. Paul International Airport is the only large hub airport in the Metropolitan Statistical Area (MSA) serving scheduled air commerce.

To gain a better understanding of Minnesota, the following information is presented in this section.

- Population
- Income and Education
- Employers
- Tourism and Attractions
- Employment
- Interesting Facts about Minneapolis-St Paul International Airport

## Population

Despite the sometimes frigid weather, Minnesota's population continues to grow each year. The table below presents the population for the U.S., Minnesota, and the Metropolitan Statistical Area (MSA). The MSA is composed of 11 counties located in the east-central region of the state and two counties in the western portion of Wisconsin. According to the U.S. Census Bureau, Minnesota is the 22<sup>nd</sup> most populous state in the nation, with a 5.1% increase since 2010. The Minnesota Department of Natural Resources website states a population density of 66.6 persons per square mile. Much of the recent population growth is attributed to immigration, births, and new residents. According to the Minnesota State Demographic Center, the state population is made up of 81.0% White Non-Hispanic, 5.8% African American, 5.2% Hispanic, and 4.8% Asian Non-Hispanic people, with the remaining 3.2% of the population representing a variety of other races. Approximately 64% of Minnesota's population lives in the MSA, as shown in the table below.

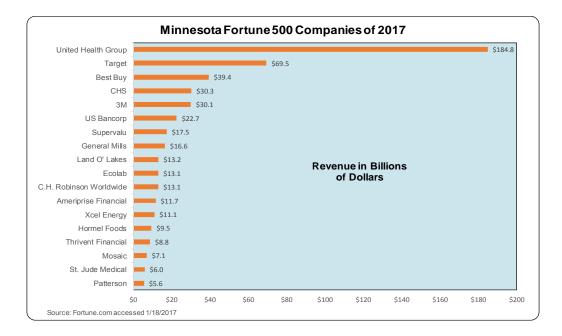
POPULATION As of December 31, 2017 (In thousands)					
Calendar	United		Minneapolis St. Paul	MSA** as % of	MSA as % of
Year	States	Minnesota	MSA	US	Minnesota
2004	293,046	5,079	3,112	1.1%	61.3%
2005	295,753	5,127	3,141	1.1%	61.3%
2006	298,593	5,167	3,172	1.1%	61.4%
2007	301,580	5,198	3,208	1.1%	61.7%
2008	304,375	5,231	3,238	1.1%	61.9%
2009	307,007	5,266	3,270	1.1%	62.1%
2010	309,326	5,303	3,349	1.1%	63.2%
2011	311,583	5,347	3,389	1.1%	63.4%
2012	313,874	5,380	3,422	1.1%	63.6%
2013	316,129	5,420	3,459	1.1%	63.8%
2014	318,857	5,457	3,428	1.1%	62.8%
2015	322.871	5,490	3,495	1.1%	63.7%
2016	324,304	5,520	3551	1.1%	64.3%
2017	326,971	5.577	TBD	TBD	TBD

# Employers

Many large, prominent companies are based in Minnesota and reap the benefits of the state's talent, innovation, and trade. In 2017, Mayo Clinic was at the top of the Largest Minnesota Employer listing with almost 42,000 employees, when ranked by number of in-state employees. State and Federal Governments are close behind in the ranking with 41,200 and 31,900 employees, respectively. Target Corporation is still holding strong as one of the top employers, and Delta Air lines is a big player with 7,800 in-state employees.

Minnesota Top 20 largest Employers					
Ranked by i	nstate employees				
Freedow	Number of Minnesota	la duata.			
Employer Mayo Clinic	Employees 41.620				
State of Minnesota	41,820				
US Federal Government	41,200 31,900				
Allina Health	27.635				
University of Minnesota	,	Education			
Target Corporation	26,436				
Fairview Health Services	24,000				
HealthPartners	24,000				
Wells Fargo Minnesota	20,000				
UnitedHealth Group	17,000				
Minnesota State Colleges & Universities	16,190				
3M Company	15.000				
US Bancorp	13,000	5			
Essentia Health	11,817				
United States Postal Service	11,528				
CentraCare Health	9.758				
Supervalu Inc	9.310				
Medtronic	9,000				
Hormel Foods Corp.	8.867	0,			
HealthEast Care System	8,350				
Source: Minneapolis/St. Paul Business Journal	0,000				

The companies on the Fortune 500 list total \$12 trillion in revenues and 28.2 million worldwide employees. Minnesota is home to 18 Fortune 500 companies, representing a wide variety of industries including health services, financial services, retail sales, manufacturing, and food processing. These companies brought in \$510.1 billion in revenue in 2017. The following chart recognizes the Minnesota Fortune 500 Companies of 2017 ranked by revenue. United Health Group tops the chart with \$184.8 billion in revenue, followed by Target Corporation with \$69.5 billion. Best Buy and CHS are next in line with \$39.4 and \$30.3 billion, respectively. Minnesota is also home to more than 500,000 small businesses and 74,500 farms.



# Employment

The civilian unemployment table reveals that Minnesota and the Minneapolis-St. Paul Metropolitan Statistical Area have historically low unemployment rates. The Minnesota rate has been below the national rate for all years shown except for 2007 and 2008. During those years, a recession from poor housing, credit, and financial markets led to the highest unemployment rate in Minnesota in 22 years. However, the unemployment rate for the MSA was lower than the national unemployment rate in every year shown. According to the Bureau of Labor Statistics, Minnesota's current 3.1% unemployment rate was the 9th lowest in the nation in November of 2017. In 2010, the unemployment rate began to decline in Minnesota and the MSA, but it did not decline for the United States until the following year. Unemployment continues to remain low for the United States, Minnesota, and the MSA.

According to the Department of Employment and Economic Development (DEED), Minnesota is projected to

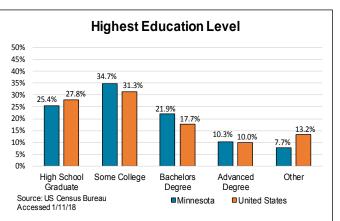
continue adding jobs annually and will reach 3.1 million jobs by 2022. With the Fortune 500 companies, the large number of employers in the state, and new jobs added annually, Minnesota remains economically strong and vibrant.

# Income and Education

In 2016, Minnesota ranked 13<sup>th</sup> in the U.S. for per capita personal income. The Minnesota rate increased 3.0% from 2015 to 2016, compared to the national average of 2.4 percent. Minnesota's \$52,038 per capita personal income was 105.7% of the national average of \$49,246 per the Bureau of Economic Analysis. For every year listed in the following personal income chart, the MSA's per capita personal income has been higher than the per capita personal income amount for both the nation and the state. This higher per capita personal income leads to an average higher discretionary disposable income than others throughout Minnesota and the nation. This relates positively to the demand for air travel.

The following two charts depict comparisons of per capita personal income and the highest attained education levels.

		Per Capita I	Pers	sonal Income	
				United	
Year		Minnesota		States	MSA
2007	\$	41,764	\$	39,430 \$	46,853
2008	\$	43,037	\$	40,208 \$	48,207
2009	\$	41,223	\$	38,846 \$	44,977
2010	\$	42,847	\$	39,945 \$	46,498
2011	\$	44,560	\$	41,560 \$	48,657
2012	\$	46,925	\$	43,735 \$	50,260
2013	\$	47,500	\$	44,765 \$	51,183
2014	\$	48,998	\$	46,049 \$	53,166
2015	\$	50,541	\$	48,112 \$	55,599
2016	\$	52,038	\$	49,246 \$	56,723
Source: Bure 1/11/18	eau of E	conomic Analysis	, US	Department of Commerce	accessed



Education is important to Minnesotans. As depicted in the education chart above, the state has a well-educated workforce. For adults 25 years of age and over, the percentage of Minnesotans with bachelor and advanced degrees is 6.6% greater than the percentage of the United States population as a whole. Including high school graduates and people with some college education, Minnesota exceeds the nation by 5.5%. Post-secondary education opportunities in the MSA include a variety of institutions: public universities, private colleges and universities, community colleges, technical colleges, and post-graduate schools. In addition, several proprietary schools offer trade and technical training in the MSA. These educational opportunities help situate Minnesota in a competitive economic position.

Calendar	United		Minneapolis St Paul
Year	States	Minnesota	MSA**
2003	6.0%	4.9%	4.7%
2004	5.5%	4.4%	4.4%
2005	5.1%	4.2%	3.9%
2006	4.6%	4.4%	3.8%
*2007	4.6%	4.8%	4.0%
*2008	5.8%	6.5%	5.1%
2009	9.3%	7.7%	7.9%
2010	9.6%	7.0%	7.3%
2011	8.9%	5.8%	6.3%
2012	8.1%	5.4%	5.5%
2013	7.4%	4.7%	4.8%
2014	6.2%	3.6%	3.0%
2015	5.0%	3.5%	2.7%
2016	4.7%	3.8%	3.0%
2017	4.1%	3.1%	2.4%

Civilian Unomployment Pate

Sources: US Department of Labor, Bureau of Labor Statistics accessed 1/9/17, Minnesota Department of Employment and Economic Development accessed 1/9/17

# **Tourism and Attractions**

The Minneapolis-St Paul area has numerous tourist attractions and local activities:

- The nation's largest shopping center and entertainment complex, the Mall of America (MOA) receives over 40 million visitors per year, 40% of whom are tourists. The MOA generates \$2 billion of annual economic activity.
- Nationally renowned cultural organizations include the Guthrie Theater, Children's Theater Company, Minnesota Orchestra, St. Paul Chamber Orchestra, Minnesota Opera, Walker Art Center, Minneapolis Institute of Arts, and Minnesota Museum of Art.
- Broadway shows and other cultural events are hosted by the State Theater, Orpheum Theatre and Ordway Theatre.
- Six major teams play professional sports in the Twin Cities: the Minnesota Twins (baseball), Minnesota Vikings (football), Minnesota Timberwolves (men's basketball), Minnesota Lynx (women's basketball), Minnesota United (men's soccer) and Minnesota Wild (hockey). In 2016, the brand new U.S. Bank Stadium in downtown Minneapolis hosted its first Minnesota Vikings game. It also hosted the NFL's Super Bowl LII game in 2018. The Saint Paul Saints (American Association of Independent Professional Baseball) opened CHS Field in downtown Saint Paul in 2015.
- University of Minnesota Gophers participate in the Big Ten Conference in a number of sports including basketball, hockey, football and soccer.
- Minnesota, with its more than 10,000 lakes and 136,000 acres of parks, trails and wildlife management areas, is known for its wide variety of outdoor activities such as sailing, fishing, skiing, and hunting.
- Popular local activities in Minnesota include the following annual events: Minnesota State Fair, Minneapolis Aquatennial, and St. Paul Winter Carnival.



U.S. Bank Stadium, Downtown Minneapolis Source: Architectural Digest Online

# Interesting Facts about the Metropolitan Airports Commission

## **Historical Facts**



Arial View of Snelling Speedway

The Snelling Speedway auto racing venue was an unsuccessful venture. In 1914, the Minneapolis Aero Club acquired the property, which is now home to the Minneapolis-St. Paul International Airport.

The first hangar was built on the speedway property in 1920. The wooden structure was constructed to accommodate airmail service. The 160-acre property became known as Speedway Field.

In 1926, Northwest Airways won the government's airmail contract and acquired the hangar.



First U.S. Air Mail Building on Speedway Field

In 1923, Speedway Field was re-named Wold-Chamberlain Field in honor of two local pilots, Ernest Wold and Cyrus Chamberlain, who lost their lives in combat during World War I.



Dedication of Wold-Chamberlain Field on July 10, 1923



St. Paul Downtown Airport Terminal Building - Year 1939

The St. Paul Downtown Airport remains one of the six reliever airports in the Metropolitan Airports Commission's system. Formerly known as Holman Field, the airport is now the metro area's primary facility for private business aviation. To protect the facility against river flooding, a floodwall was installed in 2008.



Filming in the Airport Terminal Source: <u>www.imdb.com</u> & Getty Images © 2012

In 1970, the movie "Airport" was filmed partially at MSP. Burt Lancaster, Dean Martin, Jean Seberg, and Jacqueline Bisset starred in the movie.

## **Current MSP Information**

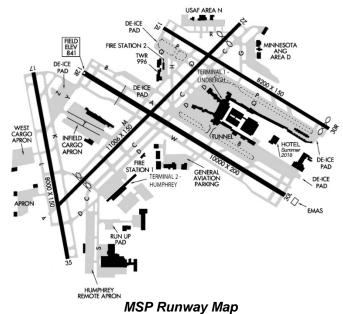
- The MSP Airport Surveillance radar sweeps the sky once every 4.8 seconds.
- Runway 17-35 and its taxiways contain enough concrete to build a sidewalk from Minneapolis to New Orleans.
- Runway 12R-30L is 10,000 feet long by 200 feet wide, which equates to two million square feet of concrete. The MAC runway snow removal team can clear the runway of snow in less than 10 minutes.
- MSP operates one of the nation's most extensive airport noise mitigation programs. Since 1992, the Commission has spent approximately \$480 million on noise mitigation programs, including insulating 17,969 single-family homes and multi-family units and 19 schools.
- The 53,000 kilometers of fiber cable installed on the property of the Commission could circle the world just over two times.
- MSP encompasses approximately 3,300 acres. Turf areas, accounting for more than one-third of the campus, require extensive maintenance by the Field Maintenance crew.

## **MSP** Airport Activity

The passenger traffic at MSP is affected by the region's economic profile. For example, the amount and type of commerce in the region may affect the level of business travel to and from MSP or the average regional personal income may affect the level of discretionary travel from MSP.



Terminal 2 Gate Expansion



Total Passengers <sup>1</sup>			Total Cargo <sup>2</sup>				
(in thousands)			(Freight and mail, in thousands of metric tons)				
Rank	Airport	Passengers	Rank	Airport	Cargo		
1 Atla	inta (ATL)	104,172	1	Memphis (MEM)	4,322		
2 Los	Angeles (LAX)	80,922	2	Anchorage (ANC)	2,543		
3 Chi	cago (ORD)	77,961	3	Louisville (SDF)	2,437		
4 Dal	las/Fort Worth (DFW)	65,671	4	Miami (MIA)	2,014		
5 Nev	v York (JFK)	59,106	5	Los Angeles (LAX)	1,993		
6 Dei	ver (DEN)	58,267	6	Chicago (ORD)	1,528		
15 Hou	uston (IAH)	41,623	25	Denver (DEN)	250		
16 Nev	vark (EWR)	40,563	26	Portland (PDX)	219		
17 Mii	nneapolis (MSP)	37,414	27	Orlando (MCO)	209		
18 Bos	ston (BOS)	36,357	28	Detroit (DTW)	205		
19 Det	roit (DTW)	34,401	29	Minneapolis (MSP)	<b>191</b>		
20 Phi	ladelphia (PHL)	30,155	30	Salt Lake City (SLC)	174		
<sup>1</sup> arriving and departing passengers and direct transit passengers counted once							

MSP is one of the highest activity airports in the United States. Approximately 40% of the passengers are connecting while the other 60% are origin-destination. In 2002, MSP held 9<sup>th</sup> place for U.S. airport passenger activity. Several airline bankruptcies and mergers subsequently occurred, as well as a general decline in air travel. This resulted in a drop in rank to 17<sup>th</sup> place, where MSP has held steady for several years.

When ranked by total cargo, MSP placed 29<sup>th</sup> in the U.S. for 2016. MSP fell from the 2015 ranking of 27<sup>th</sup> place. This is generally attributable to significant increases in total metric tons of cargo for Detroit and Orlando. The Amazon Fulfillment Center located in Minnesota was opened for a full year for the first time in 2017. It is anticipated that this will lead to a slight increase in 2017 cargo at MSP over 2016.

The following table indicates which air carriers provide service at MSP. As of January 1, 2018, the airport was served by 38 air carriers, including 22 U.S. Flag carriers providing scheduled service, nine all-cargo service carriers, and seven foreign-flag carriers.

Air Carriers Serving the Airport <sup>1</sup> As of January 1, 2018         U.S. Flag Carriers         Air Wisconsin*       Envoy*       Sun Country*         Air Choice One*       ExpressJet*       Republic Airlines*         Alaska*       Frontier*       Shuttle America*         American*       Go Jet*       Sky West*         Boutique Air*       Horizon*       Southwest*         Compass*       Mesa*       Spirit*         Detta*       PSA*       United*         Endeavor*       Foreign Flag Carriers       Air Canada*         Air Canada*       Condor*       KLM*         Air Georgian*       Ail Cargo Service       ABX Air*         ABX Air*       CSA Air       Mountain Air Cargo         Atlas Air Cargo*       FedEx*       Suburban	Minneapolis St Paul International Airport							
As of January 1, 2018         U.S. Flag Carriers         Air Wisconsin*       Envoy*       Sun Country*         Air Choice One*       ExpressJet*       Republic Airlines*         Alaska*       Frontier*       Shuttle America*         American*       Go Jet*       Sky West*         Boutique Air*       Horizon*       Southwest*         Compass*       Mesa*       Spirit*         Delta*       PSA*       United*         Endeavor*       Foreign Flag Carriers       KLM*         Air Canada*       Condor*       KLM*         Air Georgian*       Icelandair*       Sky Regional*         Air Georgian*       All Cargo Service       All Cargo Service         ABX Air*       CSA Air       Mountain Air Cargo         Atlas Air Cargo*       FedEx*       Suburban								
U.S. Flag CarriersAir Wisconsin*Envoy*Sun Country*Air Choice One*ExpressJet*Republic Airlines*Alaska*Frontier*Shuttle America*American*Go Jet*Sky West*Boutique Air*Horizon*Southwest*Compass*Mesa*Spirit*Delta*PSA*United*Endeavor*Foreign Flag CarriersAir Canada*Condor*KLM*Air Georgian*Icelandair*Sky Regional*All Cargo ServiceAll Cargo ServiceABX Air*CSA AirMountain Air CargoAtlas Air Cargo*FedEx*Suburban	<b>o</b> 1							
Air Wisconsin*Envoy*Sun Country*Air Choice One*ExpressJet*Republic Airlines*Alaska*Frontier*Shuttle America*American*Go Jet*Sky West*Boutique Air*Horizon*Southwest*Compass*Mesa*Spirit*Delta*PSA*United*Endeavor*Foreign Flag CarriersAir Canada*Condor*KLM*Air France*Icelandair*Sky Regional*Air Georgian*Ail Cargo ServiceABX Air*CSA AirMountain Air CargoAtlas Air Cargo*FedEx*Suburban	As of January 1, 2018							
Air Choice One* ExpressJet* Republic Airlines* Alaska* Frontier* Shuttle America* American* Go Jet* Sky West* Boutique Air* Horizon* Southwest* Compass* Mesa* Spirit* Delta* PSA* United* Endeavor* <b>Foreign Flag Carriers</b> Air Canada* Condor* KLM* Air France* Icelandair* Sky Regional* Air Georgian* <b>All Cargo Service</b> ABX Air* CSA Air Mountain Air Cargo Atlas Air Cargo* FedEx* Suburban	U.S. Flag Carriers							
Alaska*       Frontier*       Shuttle America*         American*       Go Jet*       Sky West*         Boutique Air*       Horizon*       Southwest*         Compass*       Mesa*       Spirit*         Delta*       PSA*       United*         Endeavor*       Foreign Flag Carriers       Air Canada*         Air Canada*       Condor*       KLM*         Air Georgian*       Icelandair*       Sky Regional*         All Cargo Service       ABX Air*       CSA Air       Mountain Air Cargo         Atlas Air Cargo*       FedEx*       Suburban       Suburban	Air Wisconsin*	Envoy*	Sun Country*					
American*     Go Jet*     Sky West*       Boutique Air*     Horizon*     Southwest*       Compass*     Mesa*     Spirit*       Delta*     PSA*     United*       Endeavor*     Foreign Flag Carriers     Air Canada*       Air Canada*     Condor*     KLM*       Air France*     Icelandair*     Sky Regional*       Air Georgian*     All Cargo Service       ABX Air*     CSA Air     Mountain Air Cargo       Atlas Air Cargo*     FedEx*     Suburban	Air Choice One*	ExpressJet*	Republic Airlines*					
Boutique Air* Horizon* Southwest* Compass* Mesa* Spirit* Delta* PSA* United* Endeavor* Air Canada* Condor* KLM* Air France* Icelandair* Sky Regional* Air Georgian* AII Cargo Service ABX Air* CSA Air Mountain Air Cargo Atlas Air Cargo* FedEx* Suburban	Alaska*	Frontier*	Shuttle America*					
Compass*     Mesa*     Spirit*       Delta*     PSA*     United*       Endeavor*     Foreign Flag Carriers       Air Canada*     Condor*     KLM*       Air France*     Icelandair*     Sky Regional*       Air Georgian*     All Cargo Service       ABX Air*     CSA Air     Mountain Air Cargo       Atlas Air Cargo*     FedEx*     Suburban	American*	Go Jet*	Sky West*					
Delta*     PSA*     United*       Endeavor*     Foreign Flag Carriers       Air Canada*     Condor*     KLM*       Air France*     Icelandair*     Sky Regional*       Air Georgian*     Il Cargo Service       ABX Air*     CSA Air     Mountain Air Cargo       Atlas Air Cargo*     FedEx*     Suburban	Boutique Air*	Horizon*	Southwest*					
Endeavor*  Foreign Flag Carriers  Air Canada* Condor* KLM*  Air France* Icelandair* Sky Regional*  Air Georgian*  All Cargo Service  ABX Air* CSA Air Mountain Air Cargo Attas Air Cargo* FedEx* Suburban	Compass*	Mesa*	Spirit*					
Foreign Flag Carriers         Air Canada*       Condor*       KLM*         Air France*       Icelandair*       Sky Regional*         Air Georgian*       All Cargo Service         ABX Air*       CSA Air       Mountain Air Cargo         Attas Air Cargo*       FedEx*       Suburban	Delta*	PSA*	United*					
Air Canada* Condor* KLM* Air France* Icelandair* Sky Regional* Air Georgian* All Cargo Service ABX Air* CSA Air Mountain Air Cargo Atlas Air Cargo* FedEx* Suburban	Endeavor*							
Air France* Icelandair* Sky Regional* Air Georgian* AII Cargo Service ABX Air* CSA Air Mountain Air Cargo Atlas Air Cargo* FedEx* Suburban	Foreign Flag Carriers							
Air Georgian* All Cargo Service ABX Air* CSA Air Mountain Air Cargo Atlas Air Cargo* FedEx* Suburban	Air Canada*	Condor*	KLM*					
All Cargo Service           ABX Air*         CSA Air         Mountain Air Cargo           Atlas Air Cargo*         FedEx*         Suburban	Air France*	Icelandair*	Sky Regional*					
ABX Air*CSA AirMountain Air CargoAtlas Air Cargo*FedEx*Suburban	Air Georgian*							
Atlas Air Cargo* FedEx* Suburban	All Cargo Service							
0	ABX Air*	CSA Air	Mountain Air Cargo					
Remidii* IEI LIPS*	Atlas Air Cargo*	FedEx*	Suburban					
	Bemidji*	IFL	UPS*					
* Denotes those air carriers that are signatory airlines to the Airline Lease Agreement.								
<sup>1</sup> Excludes carriers reporting fewer than 1,000 enplaned passengers per annum.								
Source: Metropolitan Airports Commission								

In addition to the preceding air carriers, the Air Force Reserve 934<sup>th</sup> Tactical Airlift Group, the Marine Air Reserve Training Detachment, and the Naval Air Reserve-Twin Cities Center are three branches of the U.S. Armed Forces represented at MSP. The Minnesota Air National Guard 133<sup>rd</sup> Tactical Airlift Group is also located at MSP.

# Glossary

**21D** – Lake Elmo Airport – An easy drive to the St. Paul business district or to scenic destinations along the St. Croix River, such as Stillwater, Minnesota and Hudson, Wisconsin. It is one of six reliever airports operated by the MAC.

**AA** – Affirmative Action

**AAAE** – American Association of Airport Executives – Founded in 1928, AAAE is the world's largest professional organization for airport executives, representing thousands of airport management personnel at public-use commercial and general aviation airports. AAAE's members represent some 850 airports and hundreds of companies and organizations that support airports. AAAE serves its membership through results-oriented representation in Washington, D.C. and delivers a wide range of industry services and professional development opportunities including training, meetings and conferences, and a highly respected accreditation program. http://www.aaae.org/about\_aaae/

Accrual Basis – This basis of accounting attempts to record financial transactions during the period in which they occur, rather than recording them during the period in which they are paid.

ACI-NA – Airports Council International-North America – The Airports Council International – North America (ACI-NA) represents local, regional and state governing bodies that own and operate commercial airports in the United States and Canada. <u>http://www.aci-na.org/content/who-we-are</u>

**ACRP 74** – Airport Cooperative Research Program Report 74 – A publication of the Transportation Research Board of the National Academies, entitled "Application of Enterprise Risk Management at Airports." <u>http://onlinepubs.trb.org/onlinepubs/acrp/acrp\_rpt\_074.pdf</u>

**Administrative Expenses** – One of the main expense categories which includes the following: office supplies, computer supplies, postage, printing, memberships, and travel.

**ADA** – The Americans with Disabilities Act – The Americans with Disabilities Act prohibits discrimination against people with disabilities in employment, transportation, public accommodation, communications, and governmental activities. The ADA also establishes requirements for telecommunications relay services. https://www.dol.gov/general/topic/disability/ada

## **AFD** – Airport Fire Department

**Agreement (The)** – The Airline Agreement which expires on 12/31/18 for most airlines (Delta, Compass, Endeavor Air, KLM, and Air Canada expires 12/31/20.) This Agreement is the basis for airline rates and charges primarily the landing fee, ramp fee, carrousels and conveyors, terminal building rates and the noise surcharge.

**Agreement (The) Third Amendment** – This was an amendment to the Airline Agreement approved in 2007 by all carriers. Major components of this amendment include converting the rate methodology from Depreciation and Interest to Debt Service and incorporating a portion of the concessions (25% of Food & Beverage, Retail, News and On Airport Auto Rental revenues to the MAC up to a maximum of \$32.3 million escalated annually) as a rebate to Terminal 1 and Terminal 2 tenants.

#### AHU – Air Handling Unit

**AIP Entitlements** – Funding available under the FAA's Airport Improvement Program (AIP). Entitlement grants are based on the number of enplaning passengers and landed cargo weight.

**AIP Grants – Noise** – Funding available under the FAA's Airport Improvement Program (AIP). Environmental Mitigation Projects are discretionary grants that are approved on a project by project basis.

**Airline Rates and Charges** – One of the three main revenue categories. Includes all charges set by the Airline Agreement (landing fees, ramp fees, terminal rents, carrousels and conveyors) plus other airline terminal rents.

Airline R & R (ALR&R) – Airline Repair and Replacement Surcharges – Part of the airline rates and charges

Amortization – The systematic allocation of a balance sheet item to expense (or revenue) on the income statement

**ANE** – Anoka County-Blaine Airport – Situated in the north metro near the National Sports Center, Anoka County-Blaine Airport is also known as Jane's Field. It is one of six reliever airports operated by the MAC.

**AOA** – Airport Operations Area – Any area of an airport used or intended to be used for landing, takeoff, or surface maneuvering of aircraft. An air operations area includes such paved areas or unpaved areas that are used or intended to be used for the unobstructed movement of aircraft in addition to its associated runway, taxiways, or apron. http://aviationglossary.com/air-operations-area-aoa/

**AOEE** – Assessment of Environmental Effects

**APC** – Automated Passport Control – APC is a U.S. Customs and Border Protection (CBP) program that expedites the entry process for U.S., Canadian and eligible Visa Waiver Program international travelers by providing an automated process through CBP's Primary Inspection area. Travelers use self-service kiosks to submit their Customs declaration form and biographic information.

**APD** – Airport Police Department

**APM** – Automated People Mover – The MAC has three Automated People Movers, also known as trams, to transport the traveling public. The C Concourse Tram runs the length of the C Concourse, which has 28 gates. The two parallel hub trams connect Terminal 1 with various ground transportation options, rental cars, parking ramps, and the light rail to Terminal 2.

**Apron** – The extensive paved area immediately adjacent to the Terminal Building area and hangar area. Also referred to as the ramp

**ARFF** – Aircraft Rescue Fire Fighting – Operators of Part 139 airports must provide aircraft rescue and firefighting services during air carrier operations that require a Part 139 certificate. http://www.faa.gov/airports/airport\_safety/aircraft\_rescue\_fire\_fighting/

**ASQ** – Airport Service Quality Program – Airports Council International's ASQ is the world-renowned and globally established global benchmarking program measuring passengers' satisfaction while they are travelling through an airport. <u>http://www.aci.aero/Airport-Service-Quality/ASQ-Home</u>

**AST** – Above Ground Storage Tank is a tank that stores liquid substances (e.g. jet fuel, glycol, diesel fuel) above ground

**ATCT** – Air Traffic Control Tower

**AVI** – Automated Vehicle Identification – A system which uses radio frequency identification to identify a vehicle by reading a small tag mounted on a vehicle windshield

**BHS** – Baggage Handling System

**Balanced Budget** – Refers to a budget approach in which budgeted operating revenue is equal to budgeted operating expense plus depreciation

**BIDS** – Baggage Information Display System

**Bonds** – A formal promise to pay a specified principal at a certain date in the future along with periodic interest on that principal at a specified rate per period

**Budget** – An itemized summary of expected income and expenditure of the Metropolitan Airports Commission over a specified period

**CAFR** – Comprehensive Audited Financial Report

**Capital Equipment** – Represents equipment with a cost of at least \$10,000, which will be capitalized and depreciated

**Capital Expenditure** – Refers to a project or piece of equipment with a cost of at least \$10,000; it will be capitalized and depreciated over its useful life

**Capital Improvement Program (CIP)** – This program covers projects which will be started during the next two years. Also, a Capital Improvement Plan is used to project an additional five years' worth of projects. These serve as a basis for determining funding requirements and other operational planning decisions.

**Capitalized Interest** – Interest costs incurred from date of capital project commencement through date of beneficial occupancy (substantial completion)

**CBP** – U.S. Customs and Border Protection

**CCTV** – Closed Circuit Television

**CFC** – Customer Facility Charge is an on-airport rental car assessment to recover the rental car portion of capital costs associated with construction of the auto rental/public parking garage located adjacent to Terminal 1 as well as to recover certain maintenance costs relating to the auto rental facilities.

**CIP** – Capital Improvement Plan – A 7-year plan relating to construction projects in the Commission's airport system. The current budget year includes projects that have been reasonably defined for implementation during that year. The next budget year includes projects that have been identified in that year of the program which have a need or potential need, but require further study in order to properly determine the scope, feasibility, and cost of the project. The final five years consists of projects that appear to be needed during that period. This portion assists in financial planning and meets the requirements of the Metropolitan Council's Investment Framework.

**CMAA** – Commercial Management and Airline Affairs – The Commercial Management and Airline Affairs Department oversees revenue generation from airline and airport concession agreements, MSP leases, and system-wide non-aeronautical leases. The department manages MAC property and real estate. It also works to maintain and enhance air service at MSP, including development and management of incentive programs and efforts to spur additional domestic and international route development.

**CMMS** – Computerized Maintenance Management System – A software system used to manage assets and to track asset maintenance; a database of information relative to an organization's maintenance operations including work orders, repair history and life-cycle costs

**CMS** – Content Management System is a computer program which allows publishing, editing and modifying content as well as maintenance from a central interface; the core function of content management systems is to present information on web sites.

**COLA** – Cost-of-Living Adjustment

**Commission** – Metropolitan Airports Commission

**Commercial Paper** – Short-term debt obligation sold with maturity dates of 270 days or less

**Concessions** – One of the three main revenue categories; this category includes: food and beverage, news & gifts, parking, auto rental, vending, ground transportation, telephones, and numerous other small leases.

**Concourse** – The long hallway-like structure where loading and unloading of passengers takes place

**Connecting Passengers** – Passengers who fly to MSP and transfer to another flight in order to reach their final destination

**Construction Fund** – A special account whose monies are used for capital project expenditures, including consulting fees, at all Commission facilities (See Construction Budget)

**CSAC** – The Customer Service Action Council was created in 1999 in response to the State of Minnesota "Quality" initiative. The MAC charged CSAC with leadership of its strategic effort to provide world-class, customer-oriented air transportation services at MSP.

**CSPI** – Customer Service Partnership Initiative is an inter-organizational approach to managing customer service throughout Minneapolis–St. Paul International Airport.

**CUPPS** – Common Use Passenger Processing System – CUPPS describes the range of services and specifications enacted to enable multiple airlines/handling agents, service providers, or other users to share physical areas on or off airport, whether simultaneously or consecutively. CUPPS is based on an open standards-based environment and has been specifically designed to easily incorporate new technologies as they become available. <u>www.iata.org</u>

**CUSE** – Common Use System Equipment – Ticketing and gate equipment used by multiple airlines or other entities

**CUTE** – Common Use Terminal Equipment – Ticketing and gate equipment used by multiple airlines or other entities

**CUSS** – Common Use Self-Service – CUSS describes the specifications and standards for multiple airlines sharing one physical self-service kiosk. <u>http://www.iata.org/whatwedo/workgroups/Pages/cuwg.aspx</u>

**CWN** – The Comprehensive Well Network is a network of wells (on the down-gradient perimeter of MSP) where groundwater quality and elevation data are collected

**DAS** – Distributed Antenna System – A DAS is a network of antenna nodes that are connected to a common source to provide wireless communication service in a specific locality or building. https://www.techopedia.com/definition/6878/distributed-antenna-system-das

**DBE** – Disadvantaged Business Enterprise

**Debt Service** – Represents issuer's obligation to repay the principal and interest

**Debt Service Account** – An account which the MAC is required by law to maintain. The balance on hand on October 10<sup>th</sup> of each year must equal all principal and interest due on all Airport Improvement Bonds and General Obligation Revenue Bonds payable through the end of the second following year.

**Debt Redemption Fund (Sinking Fund)** – A special account whose monies are set aside to retire debt (See Debt Service Budget)

**Defeased** – Refers to bond refundings where the old debt is replaced by a new debt schedule. In most cases, this is done at a lower interest rate

**Deficit** – Represents the negative difference between operating revenues less operating expenses (including depreciation)

**Department** – Usually a combination of service centers but is sometimes used interchangeably with the term service center

**Depreciation** – Accounting process of allocating against periodic revenue the cost expiration of tangible plant, property and equipment over their useful lives

**Derivative Financing Products** – A transaction or contact whose value depends on or derives from the value of underlying assets such as stock, bonds, or mortgages. One party with exposure to unwanted risk can pass some or all of the risk to a second party. The first party can assume a different risk from a second party, pay the second party to assume the risk, or create a combination of these options. Derivatives are normally used to control exposure or risk.

**DHS** – Department of Homeland Security

**DMR** – Discharge Monitoring Report – DMRs are a set of self-monitoring report forms unique to the facility location and operation and based on currently effective permit requirements. Completing DMRs allows the facility to maintain compliance with the permit, verify that compliance, and identify pollutants from multiple sources that are entering a water body. <u>www.pca.state.mn.us</u>

**DOT** – Department of Transportation

**DTC** – Drivers Training Center

**E1** – Enterprise One is a software product used by the MAC to handle administrative and financial functions ranging from accounting general ledger to personnel to purchasing to lease management.

**EA** – Environmental Assessment

**EAW** – Environmental Assessment Worksheet – EAWs are part of the Minnesota Pollution Control Agency's environmental review process. This review process is a standardized public process designed to disclose information about the potential negative environmental effects of a proposed development and ways to avoid or minimize them before the project is permitted and built. <u>www.pca.state.mn.us</u>

- **ECC** Emergency Communications Center
- **ECP** Environmental Compliance Program
- **EMC** Energy Management Center
- **EMS** Emergency Medical Services

**Encumbered** – Refers to the fact that funds have been committed for payment for goods or services

**Enplaned Passengers** – The number of passengers boarding an aircraft, including originating and stopover or on-line transfer passengers

**Enterprise Fund** – The cost (expenses including depreciation) of providing goods or services to the general public on a continuing basis is to be financed or recovered primarily through user charges; that is, operating and capital expenses are paid from revenues generated by users

**EPA** – Environmental Protection Agency – The EPA was established December 2, 1970 to consolidate into one agency a variety of federal research, monitoring, standard-setting and enforcement activities to ensure environmental protection. Since its inception, the EPA has been working for a cleaner, healthier environment for the American people. <u>https://www.epa.gov/aboutepa/epa-history</u>

**EVIDs** – Electronic Visual Information Display system includes various kinds of electronic displays operated by the Commission. Displays include MUFIDS displays, digital directories, LED signs over the ticket counters and the variable message displays which are programmed to show a message.

**Exclusive Use** – Space rented to a specific airline

**Exclusive Use-Janitored** – With this space the Commission furnishes janitorial cleaning

**FAA** – Federal Aviation Administration – The FAA dates to the Federal Aviation Act, which was signed by President Dwight D. Eisenhower. The FAA's mission is to provide the safest, most efficient aerospace system in the world. This translates into a variety of roles, including regulating civil aviation, developing and operating a system of air traffic control and navigation, and developing and carrying out programs to control environmental effects of civil aviation. <u>www.faa.gov</u>

FAA Regulation Part 36 – This regulation deals with noise standards, aircraft type, worthiness, and certification.

**FAA Regulation Part 150** – This regulation: a) establishes a uniform nationwide system of describing aircraft noise and noise exposure on different communities; b) describes land-use compatibility for the guidance of local communities; and c) provides technical assistance to airport operators and other governmental agencies to prepare and execute noise compatibility planning.

**F&A Committee** – Finance and Administration Committee – The F&A Committee is composed of Commissioners meeting on a monthly basis. This Committee is one of the three standing Committees of the Metropolitan Airports Commission. All financial information is reported to and acted upon at the F&A Committee.

**F&A** – Finance & Administration

**FCM** – Flying Cloud Airport – FCM is situated in the southwestern corner of the Twin Cities in Eden Prairie. It is home base for many corporate business jets and turbo-props. It is one of six reliever airports operated by the MAC.

FCMS – FlexiPark Central Management System

**FIDS** – Flight Information Display System

FAST – Fire Alarm System Transition

**FIS** – Federal Inspection Services

**FOD** – Foreign Objects/Debris

**FTE** – Full Time Equivalent – term referring to employee headcount

**Fuel Storage Facility** – Operated by Airline Consortium and used to provide fuel to the airlines

**Funds** – Refers to the Commission's three funds segregated for accounting purposes – Operating, Debt, and Construction

**Fund Balance** – A fund balance is equal to the assets less liabilities in a fund at a given point in time. A positive fund balance indicates that assets exceed liabilities; a negative fund balance indicates that liabilities exceed assets. Fund balance may also be designated as unreserved or reserved. Unreserved fund balances are free to be authorized for future expenditures; reserved balances may not be designated for future expenditures. Additionally, the fund balance is a residual amount and is not necessarily a cash amount.

**Fund Equity** – Fund equity is a generic term referring to what is left after all the liabilities have been taken care of or paid with all the assets. In government, the term fund balance is more often used. Fund equity, while conceptually the same as fund balance, is usually reserved for funds in government that are operated on a business or accrual basis.

**GAAP (Generally Accepted Accounting Principles)** – Conventions, rules, and procedures necessary to describe accepted accounting practices at a particular time

**GASB 34** – Basis of Accounting – Effective January 1, 2002, the Commission adopted GASB Statement No. 34, Basic Financial Statements and Management's Discussion and Analysis for State and Local Governments; Statement No. 37, Basic Financial Statements – Management's Discussion and Analysis for State and Local Governments: Omnibus; and Statement No. 38, Certain Financial Statement Note Disclosures (GASB Statement No. 34). These statements establish comprehensive, new financial reporting requirements for governmental units. Under GASB Statement No. 34, the Commission is considered to be a special purpose government unit engaged primarily in Business Type Activities (BTA). As a BTA, the Commission prepares its financial statements using the accrual basis of accounting and the economic resources measurement focus.

**GASB 68** – Basis of Accounting – GASB 68 revised and established new financial reporting requirements for most state and local governments that provide their employees with pension benefits. In compliance with GASB 68, MAC recognizes its long-term obligation for pension benefits as a liability and takes a more comprehensive measurement of the MAC's annual costs of pension benefits.

**General Airport Revenue Bonds (GARBs)** – These bonds are secured by the pledge of all operating revenues of the Commission subject to the prior pledges of such revenues for payment of General Obligation Revenue Bonds.

**General Insurance** – Part of the Other Expense category; this includes insurance covering property, casualty, liability, crime, auto, and equipment

**General Obligation Bonds (GORBs)** – General obligations of the Commission. Payments of these bonds are secured by the pledge of all operating revenues of the Commission. The Commission has the power to levy property taxes upon all taxable property in the seven-county Metropolitan Area in order to pay debt service on outstanding General Obligation Revenue Bonds.

- **GFOA** Government Finance Officers Association
- GHG Green House Gas Gases that trap heat in the atmosphere. www.epa.gov
- **GIS** Geographic Information System
- HQ Headquarters
- **HR** Human Resources
- HRD Human Resource Development
- HRIS Human Resources Information Systems
- **HVAC** Heating/Ventilation/Air Conditioning
- **IAF** International Arrivals Facility

**IATA** – International Air Transport Association – The IATA is the trade association for the world's airlines, representing some 265 airlines or 83% of total air traffic. It supports many areas of aviation activity and helps formulate industry policy on critical aviation issues. <u>http://www.iata.org/about/Pages/index.aspx</u>

**IMACS** – Intelligent Monitoring and Control Systems

**Imputed Interest** – This rate is essentially a weighted average of all outstanding bond issue interest rates. It is used in the determination of various other rates.

**Issuance Costs** – Represents costs associated with issuing debt; these include, but are not limited to, underwriter fees, consultant fees, and bond insurance

IT – Information Technology

**iViSN** – Integrated Video and Information System Network – Enhanced situational awareness for the airport community. In general, this is a major upgrade of all CCTV (closed circuit television) network, cameras, and systems across MSP.

Landed Weight – Actual gross weight of a particular plane; the weights for all aircraft are published by the FAA.

**Landing Fees** – This fee is charged to all airplanes that land at MSP. The fees are calculated by dividing total field and runway costs by total landed weight. (See Revenue Assumptions section)

Line Items – Refers to specific accounts (line items) within the Commission's accounting system

Lobby Fees – These fees are a per passenger fee charged to airlines when they use Terminal 2.

**LTCP** – Long Term Comprehensive Plan – As the 20-year roadmap, the LTCP for each airport assesses facility improvements needed to accommodate projected demand from the traveling public in a safe, efficient, orderly, and cost-effective manner. Ultimately, our goal is to continue to provide a high level of service for all of our airport users through foresight and careful planning. Specifically, this process identifies when improvements will be needed, but does not authorize construction or serve as the basis for completing the environmental review process or determining noise mitigation program eligibility.

**LVN** – Airlake Airport – LVN is located south of the Twin Cities, near Lakeville and Farmington, Minnesota. It is one of six reliever airports operated by the MAC.

**M&O Committee** – Management and Operations Committee – The M&O Committee is composed of Commissioners meeting on a monthly basis. This Committee is one of the three standing Committees of the Metropolitan Airports Commission.

**MAC** – Metropolitan Airports Commission – Created in 1943 by Minnesota state law, the MAC is a public corporation providing coordinated aviation services throughout the Twin Cities metropolitan area. The MAC operates one of the largest airport systems in the nation, which includes MSP and six general aviation airports. A 15-member Board of Commissioners appointed by Minnesota's Governor and the Mayors of Minneapolis and Saint Paul establishes the Commission's policies. Those policies are implemented by the Commission's senior leadership and staff. <a href="https://metroairports.org/Airport-Authority.aspx">https://metroairports.org/Airport-Authority.aspx</a>

**MAC Funds** – Amounts generated from operations that the Commission intends to apply toward the cost of the Capital Plan after payment of all operating expenses, debt service, and other payment obligations

MACANOMS – Metropolitan Airports Commission Airport Noise and Operations Monitoring System

MACNet – MAC's Network which is the system of transmission of information across the MAC community

MACpas – Metropolitan Airports Commission public address system

**MACpoint** – The Metropolitan Airports Commission's intranet, which is the information, collaboration, and resource hub for its employees

**Maintenance Expense** – One of the main expense categories and includes five subdivisions: Trades, building, field, equipment, and cleaning

Major Carriers – Those airlines which participate in the Airline Agreement

**MAVIS** – MAC Automatic Vehicle Information System – This system controls access in and out of MSP Airport parking facilities, taxi and commercial vehicle lanes through the issuance of a valid AVI tag. The tag also records entrance and exit times for fee calculation.

**MERF** – Minneapolis Employees Retirement Fund

Metropolitan Council – Also known as the Met Council, it is the metropolitan regional planning agency

MIC - Crystal Airport - Located in Crystal, MIC is also adjacent to Brooklyn Park and Brooklyn Center. It is one of six reliever airports operated by the MAC.

Minor Equipment – Includes items whose cost is less than \$5,000; included in minor equipment are computers, computer accessories, and office furniture

**MnDOT** – Minnesota Department of Transportation – MnDOT is a state department whose mission is to plan, build, operate, and maintain a safe, accessible, efficient, and reliable multimodal transportation system that connects people to destinations and markets throughout the state, regionally, and around the world. http://www.dot.state.mn.us/vision/

**MNIT** – Minnesota IT Services – MNIT is the Information Technology agency for Minnesota's executive branch, providing enterprise and local IT services to over 70 agencies, boards, and commissions. http://mn.gov/mnit/

**MPC** – Mobile Passport Control – MPC is the first authorized app to expedite a traveler's entry process into the United States. The app streamlines the traveler inspection process and enables U.S. Customs and Border Protection officers to focus more on the inspection and less on administrative functions.

MSA – Metropolitan Statistical Area – A core area, delineated by the United States Office of Management and Budget, containing a substantial population nucleus, together with adjacent communities having a high degree of economic and social integration with that core.

https://www.census.gov/programs-surveys/metro-micro/about.html

**MSP** – Minneapolis-St. Paul International Airport – Refers to the total airport facility

**MUFIDs** – Multi-User Flight Information Display systems

NOC - Noise Oversight Committee - The MAC established the NOC in August 2002 as an advisory board to bring industry and community representatives together to address aircraft noise issues at MSP and to bring policy recommendations to the Metropolitan Airports Commission. https://www.macnoise.com/our-neighbors/msp-noise-oversight-committee-noc

**NOTAMS** – Notice to Airmen System – A notice containing information (not known sufficiently in advance to publicize by other means) concerning the establishment, condition, or change in any component (facility, service, or procedure of, or hazard in the National Airspace System) the timely knowledge of which is essential to personnel concerned with flight operations.

NPDES – National Pollutant Discharge Elimination System – The NPDES permit program, created in 1972 by the Clean Water Act, helps address water pollution by regulating point sources that discharge pollutants to waters of the United States. https://www.epa.gov/npdes/about-npdes

**NTSB** – National Transportation Safety Board – The NTSB is an independent Federal agency charged by Congress with investigating every civil aviation accident in the United States and significant accidents in other modes of transportation, including railroad, highway, marine, and pipeline accidents. http://www.ntsb.gov/about/pages/default.aspx

NWA – Northwest Airlines; merged with Delta in 2008

**O&D** Passengers – Originating and final destination passengers – originating passengers initiate their travel from MSP. Destination passengers arrive at MSP and do not transfer to another flight.

**O&M** – Operating & Maintenance

**OABA** – Open Architecture Building Automation

**Operating Fund** – A special fund used to pay all operating expenses such as personnel, maintenance, utilities, supplies, insurance, miscellaneous, and equipment purchases (See discussion on Operating Budget)

**Operating Services** – One of the main expense categories; Operating Services includes the parking management and contract, shuttle bus, advertising costs, copy agreement, bank charges, pollution control, service contracts, loading dock fees, computer service contracts, storm water monitoring, and other charges

**Operation** – The aircraft operation which represents a takeoff or landing

**OSHA** – Occupational Safety and Health Administration – OSHA was created by Congress in 1970 to assure safe and healthful working conditions for working men and women by setting and enforcing standards and by providing training, outreach, education and assistance. <u>https://www.osha.gov/about.html</u>

**Other Expenses** – One of the main expense categories; Other Expenses includes general insurance, minor equipment, safety materials, and miscellaneous items

**Other Revenue** – One of the three revenue categories; Other Revenue includes other building rents, ground rents, utilities, and miscellaneous items

**PAM** – Public Affairs & Marketing – PAM builds public support for the MAC and its airports through media relations, public information, outreach programs, marketing, and advertising. The department enhances the airport experience by providing information to travelers and increases MAC revenues through marketing of MAC facilities, parking, and food, retail, and service concessions. In addition, the department provides paging services at MSP International Airport and responds to public inquiries about the MAC and its airports.

**Passenger Facility Charge (PFC)** – An authorization by Congress which allows proprietors of commercial service airports, such as the MAC, to impose a passenger facility charge upon revenue passengers enplaning at those airports. The charge can be set at \$1.00, \$2.00, or \$3.00, \$4.00, or \$4.50. There are exemptions for passengers flying on Essential Air Service flights. The basis for the PFC is to provide needed supplemental revenues to expedite the improvement of airport facilities used by passengers to mitigate noise impacts and to expand airport system capacity. MAC's initial application was approved with charges starting June 1, 1992.

**PC Air** – Pre-Conditioned Air

**PCI** – Payment Card Industry

**PD&E Committee** – Planning, Development & Environment Committee – The PD&E Committee is composed of Commissioners meeting on a monthly basis. This Committee is one of the three standing Committees of the Metropolitan Airports Commission.

**PERA** – Public Employees Retirement Association of Minnesota – PERA serves over 250,000 current and former public employees from over 2,000 local units of government throughout the State of Minnesota. PERA also provides monthly benefits to over 100,000 retirees and other benefit recipients. Established in 1931, PERA administers three statewide retirement plans to employees of local governments and school districts. All these programs are qualified retirement plans under Section 401(a) of the Internal Revenue Code.

Personnel – One of the main expense categories; Personnel includes all wages, salaries and benefits

**PIDS** – Public Information Display Screens

**Professional Services** – This expense category refers to various types of professionals, such as architects, engineers, auditors, lawyers and other specialists hired during the year to perform studies or required work and make recommendations based upon their findings.

**PSA** – Passenger Service Assistant or Professional Services Authorization

**Ramp Fees** – A fee charged to a particular airline for exclusive use of a specific area of ramp, calculated by dividing the total estimated costs in the appropriate cost center by the number of lineal feet of ramp space; also referred to as Apron Area

**RCS** – Revenue Control System – A system which controls access in and out of MSP public parking facilities. This system also records entrance and exit times, calculates the fee due based on the applicable rate, and processes and records payment information.

**Reimbursed Expense** – Costs paid by the Commission initially and then billed back to tenants or paid to the MAC from other outside sources; reimbursement receipts are recorded in "Other Revenue"

**Reliever Airports** – Refers to St. Paul Downtown, Flying Cloud, Crystal, Anoka County-Blaine, Lake Elmo, and Airlake Airports; these airports provide facilities for general aviation activity and reduce traffic and congestion at MSP

**RIM** – Runway Incursion Mitigation

**REILs** – Runway End Identifier Lights

**Revenue Bonds** – Represent bonds which are paid with an entity's operating revenue generated from rents, fees, and charges (See GARBs)

**RFP** – Request for Proposals

**RFQ** – Request for Qualifications

**RMS** – Resource Management System

**RMT** – Remote Noise Monitoring Tower – RMT measures noise as part of the MAC Noise and Operations Monitoring System (MACNOMS). <u>https://www.macnoise.com/tools-reports/macnoms</u>

**RNAV** – Runway Area Navigation – RNAV is a method of navigation that permits aircraft operation on any desired course within the coverage of station-referenced navigation signals or within the limits of a self-contained system capability, or a combination of these. <u>https://www.skybrary.aero/index.php/Area\_Navigation\_Systems</u>

**ROI** – Return on Investment

SAAC – Secured Area Access Control System

**Scope** – Non-traditional or derivative financial products other than traditional long-term fixed rate debt obligations and traditional short-term variable rate products. Short-term variable rate products include variable rate demand obligations, commercial paper, and auction rate notes. Such non-traditional financial products include, but are not limited to, swaps, swaptions, municipal warrants, and interest rate caps.

**Self-Liquidating Rents** – Fees received for the rental of facilities constructed for a specific airline or tenant; leases or lease amendments are negotiated for each facility to assure that the payment of all associated costs of constructing, financing, and maintaining it are reimbursed to the Commission.

Service Center – The Commission's terminology for a specific department in order to keep track of costs

**Seven County Metropolitan Area** – The counties surrounding MSP and including the cities of Minneapolis and St. Paul: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington Counties.

**SIDA** – Security Identification Display Area is the portion of the airport, specified in the airport security program, in which security measures specified in 49 CFR Part 1542 are carried out. At MSP this includes the Secured Area and the Air Operations Area.

**Signatory Carriers/Airlines** – Refers to those carriers/airlines who have signed the Airline Agreement; this includes carriers/airlines from the major, commuter, charter, and cargo/freight carrier categories

**Sinking Fund** – A special account whose monies are set aside to retire debt

**SMP** – Soil Management Plan or Sustainability Management Plan

**Snow Removal** – An expense account under the Maintenance Expense category. All costs associated with removal of snow, with the exception of labor, flow into this account. These costs include materials such as salt, urea, sand, and equipment rental used for both hauling and plowing snow.

**STP** – St. Paul Downtown Airport – STP is the metro area's primary facility for private business aviation. Also known as Holman Field, it is one of six reliever airports operated by the MAC.

**Subledger** – Commission terminology for grouping expenses from various service centers to determine rates and charges for tenants and users of the MAC facilities

Subordinated Debt – Debt that is paid after Senior Debt obligations have been met

**Surplus** – Represents the positive difference between operating revenues less operating expenses (including depreciation)

**Taxiway** – Paved areas on the airfield to be primarily used for ground movements of aircraft to, from and between runways, ramp/apron space, and storage areas

**TBD** – To be determined

**Terminal 1-Lindbergh (T1)** – The main terminal where most of the scheduled flights arrive and depart MSP. Originally named after Charles Lindbergh, the building has been designated Terminal 1 to provide further direction and information. It is also referred to as Terminal 1.

**Terminal 2-Humphrey (T2)** – The Commission's Common Use Terminal for scheduled and chartered flight activity at MSP. The Hubert H. Humphrey Terminal Building has been designated Terminal 2-Humphrey to provide further direction and information. It is also referred to as Terminal 2.

**TNCs** – Transportation Network Companies. Transportation network companies use apps or websites to pair drivers with passengers. Two common TNCs are Uber and Lyft.

**TGB** – Targeted Group Business

**TSA** – Transportation Security Administration

**Unencumbered** – Funds not yet committed for purchase of goods or services

**UPS** – Uninterruptible Power Supply

**UST** – Underground Storage Tank

**Utilities Expense** – One of the major expense categories; Utilities Expense includes electricity, telephone, water, sewer, and fuel. Fuel includes both natural gas and fuel oil

**VMAT** – Vehicle Movement Area Transponder

**Wold-Chamberlain Field (WCF)** – The MSP airfield, excluding the terminal buildings. The airfield is named after two local pilots, Ernest Wold and Cyrus Chamberlain, who lost their lives in combat during World War I.

Working Capital – Changes in current assets minus changes in current liabilities

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