



U.S. Department
of Transportation
**Federal Aviation
Administration**

Detroit Airports District Office
Metro Airport Center
11677 South Wayne Road, Ste. 107
Romulus, MI 48174

August 28, 2017

Mr. Roy Hawkins, Airport Planning Engineer
Gerald R. Ford International Airport Authority
5500 44th Street SE
Grand Rapids, MI 49512-4055

Dear Mr. Hawkins:

Gerald R. Ford International Airport
Grand Rapids, Michigan
FAA Review of Master Plan Update – Aviation Activity Forecasts

The Federal Aviation Administration (FAA), Detroit Airports District Office (DET ADO) has reviewed the aviation forecast for the Gerald R. Ford International Airport (GRR) master plan study, dated April 6, 2017. The FAA approves these forecasts for airport planning purposes, including the development of the Airport Layout Plan (ALP). The FAA approval is based on our review and reference to Table 3-40, *Summary of Forecasts*, Table 3-41, *Base Case Forecast Comparison with the FAA Terminal Area Forecast*, TAF issued January 2017, and the Draft TAF issued July 2017. Based on the FAA review we offer the following:

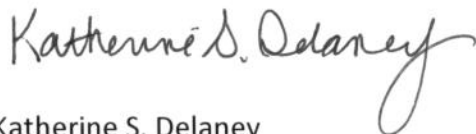
- The difference between the FAA Terminal Area Forecasts (TAF) and GRR's forecast for total enplanements is within the 10 percent and 15 percent allowance for the 5- and 10-year planning horizons (based on both the TAF January 2017 and the draft TAF July 2017).
- The difference between the FAA TAF and GRR's total operations is within the 10 percent and 15 percent allowance for the 5- and 10-year planning horizons.
- The airport sponsor based aircraft forecast shows an increase from 93 based aircraft to 139 based aircraft over the 20-year planning horizon. These forecasts were developed with specific tenant information related to fleet growth specific to GRR airport tenants.
- The forecast is based on current data and appropriate methodologies.

The critical aircraft was identified as the A300 and B-757 which currently performs more than 1000 operations a year (Table 3-12, *FAA ATADS Operations at GFIA for 2016 by Aircraft Type*). The approval of the forecast does not automatically constitute a commitment on the part of the United States to participate in any development recommended in the master plan or shown on

the ALP. All future development will need to be justified by current activity levels at the time of proposed implementation. Further, the approved forecasts may be subject to additional analysis or the FAA may request a sensitivity analysis if this data is to be used for environmental or Part 150 noise planning purposes.

If you have any questions about this forecast approval, please contact me at (734) 229-2958.

Sincerely,

A handwritten signature in black ink that reads "Katherine S. Delaney". The signature is written in a cursive style with a large, looping 'y' at the end.

Katherine S. Delaney
Community Planner
Detroit Airports District Office

Enclosure: TAF summary report for GRR (1/2017)
TAF summary report for GRR (7/2017) Draft
Forecast Comparison Table (DET ADO 8/2017)

APO TAF Quick Data Summary - Facility

For National Forecast 2016 -- 2016 Scenario

Region State: AGL-MI

LOCID: GRR Combined TRACON & Tower with Radar

City: GRAND RAPIDS

Airport: GERALD R FORD INTL

2015 Based Aircraft: 92

Fiscal Year	-- ENPLANEMENTS --			-- AIRPORT OPERATIONS --									-- TRACON --
	Air Carrier	Commuter	Total	-- Itinerant Operations --					-- Local Operations --			Total OPS	Total OPS
				Air Carrier	AT & Comm	GA	Military	Total	Civil	Military	Total		
Historical													
2012	517,484	549,078	1,066,562	15,603	29,172	27,975	1,047	73,797	11,241	1,044	12,285	86,082	105,763
2013	541,692	556,998	1,098,690	15,488	28,389	25,157	723	69,757	8,251	522	8,773	78,530	99,430
2014	623,838	538,529	1,162,367	17,515	23,714	23,806	399	65,434	8,814	178	8,992	74,426	96,546
2015	716,844	540,087	1,256,931	22,278	19,233	24,463	428	66,402	9,518	264	9,782	76,184	97,148
Forecast													
2016 *	755,231	557,526	1,312,757	23,905	17,551	25,789	534	67,779	11,566	320	11,886	79,665	99,148
2017 *	864,214	582,856	1,447,070	26,926	16,929	26,033	534	70,422	12,566	320	12,886	83,308	102,074
2018 *	882,770	594,948	1,477,718	28,890	15,090	26,110	534	70,624	12,590	320	12,910	83,534	102,287
2019 *	899,472	605,741	1,505,213	30,932	13,026	26,187	534	70,679	12,614	320	12,934	83,613	102,302
2020 *	916,663	616,879	1,533,542	32,946	11,032	26,266	534	70,778	12,638	320	12,958	83,736	102,365
2021 *	934,060	628,105	1,562,165	34,857	9,205	26,345	534	70,941	12,662	320	12,982	83,923	102,515
2022 *	950,535	638,738	1,589,273	36,298	8,044	26,424	534	71,300	12,686	320	13,006	84,306	102,953
2023 *	966,550	649,052	1,615,602	37,084	7,856	26,503	534	71,977	12,710	320	13,030	85,007	103,848
2024 *	982,232	659,177	1,641,409	37,686	7,936	26,583	534	72,739	12,734	320	13,054	85,793	104,868
2025 *	998,445	669,673	1,668,118	38,300	8,032	26,663	534	73,529	12,758	320	13,078	86,607	105,920
2026 *	1,016,188	681,168	1,697,356	38,970	8,129	26,743	534	74,376	12,782	320	13,102	87,478	107,044
2027 *	1,034,082	692,650	1,726,732	39,642	8,227	26,823	534	75,226	12,808	320	13,128	88,354	108,173
2028 *	1,051,712	704,056	1,755,768	40,308	8,326	26,903	534	76,071	12,834	320	13,154	89,225	109,296
2029 *	1,069,813	715,738	1,785,551	40,990	8,426	26,984	534	76,934	12,860	320	13,180	90,114	110,445
2030 *	1,087,761	727,379	1,815,140	41,669	8,527	27,065	534	77,795	12,886	320	13,206	91,001	111,590
2031 *	1,105,779	738,971	1,844,750	42,348	8,629	27,146	534	78,657	12,912	320	13,232	91,889	112,738
2032 *	1,123,904	750,541	1,874,445	43,028	8,732	27,227	534	79,521	12,938	320	13,258	92,779	113,891
2033 *	1,142,124	762,186	1,904,310	43,712	8,837	27,309	534	80,392	12,964	320	13,284	93,676	115,052
2034 *	1,161,024	774,322	1,935,346	44,423	8,943	27,391	534	81,291	12,990	320	13,310	94,601	116,249

2035	*	1,180,661	786,985	1,967,646	45,163	9,050	27,473	534	82,220	13,016	320	13,336	95,556	117,484
2036	*	1,200,282	799,588	1,999,870	45,901	9,158	27,555	534	83,148	13,042	320	13,362	96,510	118,721
2037	*	1,219,383	811,905	2,031,288	46,622	9,268	27,638	534	84,062	13,068	320	13,388	97,450	119,942
2038	*	1,239,115	824,549	2,063,664	47,364	9,379	27,721	534	84,998	13,094	320	13,414	98,412	121,188
2039	*	1,258,988	837,267	2,096,255	48,111	9,491	27,804	534	85,940	13,120	320	13,440	99,380	122,441
2040	*	1,278,520	849,826	2,128,346	48,848	9,604	27,887	534	86,873	13,146	320	13,466	100,339	123,686
2041	*	1,298,147	862,348	2,160,495	49,586	9,719	27,971	534	87,810	13,172	320	13,492	101,302	124,933
2042	*	1,317,840	874,922	2,192,762	50,327	9,835	28,055	534	88,751	13,198	320	13,518	102,269	126,187
2043	*	1,338,463	888,063	2,226,526	51,101	9,952	28,139	534	89,726	13,224	320	13,544	103,270	127,480
2044	*	1,359,622	901,496	2,261,118	51,893	10,071	28,223	534	90,721	13,250	320	13,570	104,291	128,797
2045	*	1,381,083	915,104	2,296,187	52,696	10,191	28,308	534	91,729	13,276	320	13,596	105,325	130,133
GR1		2.20	1.77	2.02	2.91	-2.09	0.48	0.74	1.08	1.11	0.64	1.10	1.08	0.97
GR2		2.10	1.72	1.94	2.76	-1.85	0.32	0.00	1.04	0.47	0.00	0.46	0.96	0.94

GR1: Growth Rate from 2015 to 2045

GR2: Growth Rate from 2016 to 2045

APO TAF Quick Data Summary Report - Facility

For National Forecast 2017 -- 2017 Scenario

Region State: AGL-MI
City: GRAND RAPIDS

LOCID: GRR Combined TRACON & Tower with Radar
Airport: GERALD R FORD INTL

2016 Based Aircraft: 93

--ENPLANEMENTS--				--AIRPORT OPERATIONS--									--TRACON--	
Fiscal Year	Air Carrier	Commuter	Total	Itinerant Operations					Local Operations			Total OPS	Total OPS	
				Air Carrier	AT &Commuter	GA	Military	Total	Civil	Military	Total			
2013	541,692	556,998	1,098,690	15,488	28,389	25,157	723	69,757	8,251	522	8,773	78,530	99,430	
2014	623,838	538,529	1,162,367	17,515	23,714	23,806	399	65,434	8,814	178	8,992	74,426	96,546	
2015	716,844	540,087	1,256,931	22,278	19,233	24,463	428	66,402	9,518	264	9,782	76,184	97,148	
2016	755,295	557,210	1,312,505	23,905	17,551	25,789	534	67,779	11,566	320	11,886	79,665	99,148	
2017	* 892,127	516,863	1,408,990	25,544	16,967	25,851	670	69,032	13,543	680	14,223	83,255	102,074	
2018	* 916,250	531,847	1,448,097	27,243	15,719	25,962	670	69,594	13,570	680	14,250	83,844	102,287	
2019	* 943,703	548,150	1,491,853	28,948	14,610	26,074	670	70,302	13,597	680	14,277	84,579	102,302	
2020	* 973,777	565,370	1,539,147	30,880	13,244	26,186	670	70,980	13,624	680	14,304	85,284	102,365	
2021	* 1,005,894	583,200	1,589,094	33,248	11,249	26,299	670	71,466	13,651	680	14,331	85,797	102,515	
2022	* 1,039,706	601,506	1,641,212	35,795	9,032	26,412	670	71,909	13,678	680	14,358	86,267	102,953	
2023	* 1,074,847	620,140	1,694,987	37,698	7,920	26,526	670	72,814	13,705	680	14,385	87,199	103,848	
2024	* 1,111,076	639,039	1,750,115	39,008	7,816	26,640	670	74,134	13,732	680	14,412	88,546	104,868	
2025	* 1,148,167	658,149	1,806,316	40,219	7,906	26,755	670	75,550	13,759	680	14,439	89,989	105,920	
2026	* 1,186,073	677,511	1,863,584	41,450	7,997	26,870	670	76,987	13,786	680	14,466	91,453	107,044	
2027	* 1,224,719	697,128	1,921,847	42,701	8,089	26,986	670	78,446	13,813	680	14,493	92,939	108,173	
2028	* 1,263,958	716,973	1,980,931	43,968	8,182	27,102	670	79,922	13,840	680	14,520	94,442	109,296	
2029	* 1,303,698	737,052	2,040,750	45,250	8,276	27,219	670	81,415	13,867	680	14,547	95,962	110,445	
2030	* 1,343,806	757,332	2,101,138	46,544	8,371	27,336	670	82,921	13,894	680	14,574	97,495	111,590	
2031	* 1,384,222	777,797	2,162,019	47,849	8,467	27,454	670	84,440	13,921	680	14,601	99,041	112,738	
2032	* 1,424,853	798,402	2,223,255	49,162	8,564	27,572	670	85,968	13,948	680	14,628	100,596	113,891	
2033	* 1,465,562	819,093	2,284,655	50,479	8,663	27,691	670	87,503	13,975	680	14,655	102,158	115,052	
2034	* 1,506,457	839,957	2,346,414	51,805	8,763	27,810	670	89,048	14,003	680	14,683	103,731	116,249	
2035	* 1,547,627	861,058	2,408,685	53,143	8,864	27,930	670	90,607	14,031	680	14,711	105,318	117,484	
2036	* 1,589,062	882,385	2,471,447	54,492	8,966	28,050	670	92,178	14,059	680	14,739	106,917	118,721	
2037	* 1,630,651	903,883	2,534,534	55,850	9,069	28,171	670	93,760	14,087	680	14,767	108,527	119,942	
2038	* 1,672,467	925,592	2,598,059	57,218	9,174	28,292	670	95,354	14,115	680	14,795	110,149	121,188	
2039	* 1,714,583	947,538	2,662,121	58,599	9,280	28,414	670	96,963	14,143	680	14,823	111,786	122,441	
2040	* 1,756,969	969,715	2,726,684	59,992	9,387	28,536	670	98,585	14,171	680	14,851	113,436	123,686	
2041	* 1,799,723	992,165	2,791,888	61,399	9,495	28,659	670	100,223	14,199	680	14,879	115,102	124,933	
2042	* 1,842,790	1,014,846	2,857,636	62,819	9,605	28,782	670	101,876	14,227	680	14,907	116,783	126,187	
2043	* 1,886,315	1,037,830	2,924,145	64,256	9,716	28,906	670	103,548	14,255	680	14,935	118,483	127,480	
2044	* 1,930,359	1,061,145	2,991,504	65,712	9,828	29,030	670	105,240	14,283	680	14,963	120,203	128,797	
2045	* 1,975,014	1,084,833	3,059,847	67,189	9,942	29,155	670	106,956	14,311	680	14,991	121,947	130,133	
GR1	3.37	2.32	2.96	3.63	-1.94	0.42	0.79	1.59	0.74	2.63	0.80	1.48	0.94	
GR2	2.88	2.68	2.81	3.51	-1.89	0.43	0.00	1.58	0.20	0.00	0.19	1.37	0.87	

GR1: Growth Rate from 2016 to 2045 GR2: Growth Rate from 2017 to 2045
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Gerald R. Ford International Airport Master Plan Forecasts Compared to Final January 2017 and Draft July 2017 FAA Terminal Area Forecasts

	TAF January 2017		Master Plan Forecast April 2017 Base Case		Draft TAF July 2017		Difference between Master Plan Forecasts & TAF January 2017		Difference between Master Plan Forecasts & Draft July 2017 TAF	
	Enplanements	Operations	Enplanements	Operations	Enplanements	Operations	Enplanements	Operations	Enplanements	Operations
Current Year (2016)	1,312,757	79,665	1,312,644	79,665						
+5 Years (2021)	1,562,165	83,923	1,565,796	88,284	1,589,094	85,797	0%	5%	2%	3%
+10 Years (2026)	1,697,356	87,478	1,771,523	95,677	1,863,584	89,989	4%	9%	5%	6%
+15 Years (2031)	1,844,750	91,889	1,970,322	101,164	2,162,019	99,041	6%	9%	8%	2%
+20 Years (2036)	1,999,870	96,510	2,175,394	106,226	2,471,447	106,917	8%	9%	12%	1%

Sources: GRR Master Plan Document
 FAA TAF January 2017
 FAA Draft TAF July 2017