Ann Arbor Municipal Airport (ARB), Ann Arbor Michigan - Draft Environmental Assessment FAA Combined Comment Matrix --May 2016--

Comment	Page	Section			
Number	Number	Number	Paragraph	FAA Comment	MDOT Comment Resolution
				Need statement that "This Environmental Assessment becomes a	
				Federal document" before the FAA signature block, per FAA	
1	1	title page	n/a	Order 1050.1F paragraph 6-2.1(a).	
2	1	title page	n/a	Federal signature block should read "Responsible FAA Official"	
				The Intro and background sections are discussing the State	
				Standards. What are the Federal Requirements, in addition to the	
				State reqmts? Critical Aircraft (1.5.1) & use of runway, Aircraft	
				Activity (1.5.2) and Characteristics /Recommendations (1.5.3) all	
3				need to be in the background section before purpose and need	
				section. Info in P & N needs to be in the background section.	
	9, 10 & 12	1.3 & 1.4	all		
	5, 10 01 1			Need a discussion of the SBGP so that the reader is better able to	
				understand the division of porposed actions between state and	
4	10	1.3	6	Federal	
				The paragraph is implying that the ALP is "fully approved" If this	
				were the case, it would have been unconditionally approved rather	
				than conditionally approved.	
				- Remove, "it is in fact a fully approved ALP"	
				- Add "conditional" to the last sentence, "prior to AERO signing	
5	10	1.3	6	the conditional approval letter."	
				Please explain why the comments from the ADO were not	
6	12	1.3	2	addressed.	
				Is the purpose to meet the "FAA design objectives" or to	
				accommodate the runway length needed by critical aircraft? This is	
				implying that FAA is forcing the runway extension. Recommend	
				changing the wording to clarify that aircraft are currently impacted	
				by the shorter runway length.	
				Is "increasing the line of sight for ATCT personnel" (presumably to	
7	12	1.4	3	improve a hotspot) more of a Need than a purpose?	
				States that the Need is to allow aircraft to operate at "Optimum	
				Capabilities", should this include why there's a need to operate at	
				"optimum capabilities"? Where are aircraft going, how often is the	
8	12	1.4	4	runway length affecting users?	

		I		Another sentence should be added after the first sentence of the	
				paragraph to explain that the Purpose includes lengthening and	
				shifting the runway. The second sentence is a Need and should be	
9	12	1.4	3	placed in the following paragraph.	
10	12	1.4	all	Use of the term "Safely" implies the airport is not safe currently.	
10	12	1.7	all	The purpose and needs statement should be complete and	
				concise. This would include stating the problem that is looking to	
				be addressed. A statement of overall safe and efficient and usable	
				is a general statement and should be tightened up to reflect the	
				discussion that follows. It is confusing on why the line of sight issue	
44	12	1.4	oll.	is singled out in the statement. Consider revising this statement.	
11	12	1.4	all	Clarify why the statement regarding sixuraft cave majority and not	
40				Clarify why the statement regarding aircraft says majority and not	
12				"all' aircraft?	
	12	1.4	4		
				Clarify whether the critical aircraft is properly grouped; is it okay to	
13	4.0			use the category B-II Small Aircraft? Cross reference B-II Large in	
	13	1.5.1	2	the document.	
				This paragraph is general in nature. A runway of 4,300 feet would	
				allow without load restrictions why 4,300's, why not 4,500, 5,000,	
				or 10,000. The paragraph should instead define the runway length	
				needs of the aircraft regularly using the runway, including haul	
				lengths and loads rather than suddenly put out that 4,300 ft. would	
14	13	1.5.1	5	satisfy it.	
				The example seems to be an extreme case, how often does this	
				user use the airport and what type of B-II aircraft is it? Why do they	
				base at ARB instead of another close airport if they cannot use the	
			_	aircraft to it's max capability above 40 degree F?	
15	13	1.5.1	6		
				"Part 135 operators must reduce the useable length of the runway	
4.0	1	4 = 4		by anywhere from 20-35% based on runway conditions" has this	
16	14	1.5.1	1	quote been verified through citation to the actual Part 135?	
				"Also, approximately 67% of the IFR flight plan records examined	
				were between ARB and out-of-state locations." It's not clear how	
	1	4.5.0	_	far of a distance these itinerant operations are going. Are they all to	
17	14	1.5.2	2	surrounding States or are the haul length further?	
				Second half of paragraph: Why are NetJets and AvFuel further	
40	1.4	150		called out in the two final sentences? What about the other six	
18	14	1.5.2	2	companies?	
19	16	1.5.3	FAA	Clarify why 4,200' (AC 150/5325-4B) would not support the Purpose	
	10	1.3.3	FAA	and Need (P& N) as opposed to the requested 4,300.' Why isn't 4,200' listed as an alternative?	
20	4.0	4.5.0		vvny isn't 4,200 listed as an alternative?	
	16	1.5.3	FAA		

				"The AERO recommendation of 4,300 feet is a statewide	
				standard" Recommend including how AERO developed their	
				standard. What is this length based on, is it a random length they	
				chose or does it meet the requirements identified in the P&N	
21	16	1.5.3	3	(optimum capabilities of the critical aircraft at ARB)?	
				Clarify whether the category B-II Small Aircraft requires a runway	
22				length of up to 4,300, or do the larger B-II airplanes require this	
	16	1.5.3	4	length? The Small B-II may be on the lower end of the spectrum?	
				Clarify why User-Survey Reports were heavily relied upon? Why	
				not TAF and Tower Counts? TAF was very close to accurate,	
				however it is not logical to conclude (quantitative to qualitative) that	
23				ops will increase, because TAF may not always support constant	
				increase. (Justify, e.g. is there a new coach that may boost	
				attendance for Michigan games which will increase probability of	
	16/17	1.5.4	8 (last)/ severa		
				The paragraph indicates that the TAF is used to project forecasted	
				operations to 2040. Does the airport have a locally developed	
				forecast to compare this to? Does the airport understand how the	
				TAF was developed and if it's really a good indicator of B-II itinerant	
24	17	1.5.4	4	ops?	
				"it is logical to conclude that operations by B-II category aircraft	
				and larger will also increase beyond the 551 that were documented	
				in 2014." Table 1-1 indicates that the 5-year trend from 2010 to	
				2014 is a steady or downward trend in B-II ops. Why is it logical to	
				believe B-II ops will increase given the history of ops at the airport?	
				- does the 551 include just B-II aircraft or B-II and larger as	
				indicated in the paragraph?	
				- How many of the 551 ops by B-II aircraft are by the representative	
25	17	1.5.4	5	King Air 200 or aircraft with 10 or more passenger seats?	
				"These numbers have been calculated based on the percentage of	
				actual B-II operations to actual Total Operations" Why wasn't	
				flight aware and FAA data used to determine actual usage by B-II	
				aircraft over more years? Was FAA or Flight Aware data compared	
26	17	1.5.4	6	to the Airport User Survey data used for 2007, 2009, and 2014?	
27	20	1.6	first	First sentence should read: "The City of Ann Arbor proposes to extend and shift 160' the existing"	
	20	1.0	III St	"as it does not currently meet the FAA design objectives"	
				Recommend that all references to "FAA design objectives" be	
				removed the purpose should not be to meet FAA design	
				objectives or put the onus on the FAA causing the runway length,	
28	20	1.6	2	but their user need for the longer runway	

			I	First sentence should read: "The existing runway approach light	
29	20	1.6	3	system pilots use to identify"	
				After the second sentence, the remainder of the paragraph should	
				read: "Due to difficulty in maintaing the system, the ODALS are	
				currently temporarily out of service. Due to the fact that the Runway	
				24 end is proposed to be relocated, the FAA is proposing to	
				permanenty decommission and remove the ODALS according to an	
				FAA airspace letter signed on May 13, 2015, Airspace Case	
				Number 15-AGL-14NR (Appendix H). A new runway approach	
				lighting system will not be constructed as part of the proposed	
00	00	4.0		action."	
30	20	1.6	3		
31	20	1.6	4	Clarify throughout the document the direction of rw/taxi shifting and	
	20	1.0	4	extension - either west or southwest The Shift and Extension of the existing runway should be clarified,	
				is the physical pavement going to be shifted and extended or is the	
				pavement just going to be extended and the Runway 24 threshold	
				moved 150 ft. If the remaining 150 ft pavement remains, is it	
				usable? How will the existing taxiway across the threshold be	
32	20	1.6	4	handled (to the southeast)?	
JE	20	1.0		delete entire paragraph, as this is not the appropriate section for	
33	20	1.6	5	this discussion.	
	20	1.0	Ť	Paragraph should read: "Implementation of the Preferred	
				Alternative would meet the Purpose and Need by adequately	
34	20	1.6	6	addressing the needs of the"	
35	21	1.6	first bullet	To clarify the meaning, please reword this bullet	
36	21	1.6		specify that the parallel taxiway is designated Alpha	
				Clarify that 150' is being removed from the northeast end of the	
				runway and added to the southwest end. Runway is being	
37				extended by 795'; please label the taxiway and rw; delineate why it	
				is being extended by 945' if the new runway portion will be 795'	
	21	1.6	bullets 1, 2, 3	once the 150' is newly constructed.	
00				Clarify whether entire runway is being reconstructed, or just	
38	21	1.6	& 4	portions to determine impacts.	
39	21	1.6	bullet 5	Reiterate throughout the document direction of the shift/extension	
40	21	1.6	seventh bullet	Should read: "Relocate airport-owned Precision Approach"	
				Should read: "Relocate/reconstruct FAA-owned Ruwnay 6 Runway	
41	21	1.6	tenth bullet	End Identifier"	
				add new second bullet: "FAA acceptance of relocated NAVAIDs	
42	22	1.7.1	after first bullet	(REIL)	
				I was unaware that this project would use AIP funds. If this is not	
43	22	1.7.1	third bullet	the case, reword with the correct funding source or delete	
				This bullet needs to be removed. There are no AIP funds being	
44	22	1.7.1	3	sought or provided for this proposed action.	

				The section labeled, "Other considerations" should be included in	
				the purpose and needs section. These issues kept separate from	
				the statement objectives makes it difficult to have a clear purpose	
45	22	1.8	all	and need statement and to recognize these as part of the project.	
45	22	1.0	all	and need statement and to recognize these as part of the project.	
				"The proposed shift would enahance operatinal safety, and possibly	
				prevent a runway incursion, by expanding the view of the hold area	
				and paralle taxiway to ATCT personnel." Therefore, please clarify,	
				does this this shift cause other operational issues with the existing	
				Northeasternmost hangar apron view still blocked from ATCT line of	
				sight? How will aircraft taxi to the Southeast hangar section?	
46	22	1.8.1	1	- Is 150 ft enough of a shift to remove the hot spot?	
		1.0.1	'	In response to the first sentence, clarify what type of "more negative	
47	23	1.8.1	second on pag	eimpacts" would there be?	
		1.0.1		"than with the runway theshold shift alternative" is the preferred	
				alternative to shift the threshold only and leave the pavement, or to	
48	23	1.8.1	2	shift and remove the 150 ft of pavement?	
			_	"raising the tower in its existing location would very likely result in	
				the tower penetrating the 7:1 transitional surfaces" Has an	
49	23	1.8.1	3	airspace study been completed to determine if this is a hazard?	
			_	How old is the ATCT? Is it due for a modernization or rehab that	
50	23	1.8.1	4	might cause it to be beneficial to move it?	
51	23	1.8.1	4	Delete "disruption of Airport Traffic Control operations"	
				"The proposed shift of the Runway 24 threshold would also allow	
				for a clear 34:1 approach slope" Why are they protecting for a	
				34:1 approach slope when the minimums for existing approaches	
				are 1 mile? 34:1 is typically required for minimums below 3/4 mile.	
52	23	1.8.2	1	If the 34:1 doesn't apply, why would this be a "concern"?	
				Justify the slope gradient based on page 2 of the AC 150/5325 (10)	
53	23	1.8.2	5	Effective Runway Gradient	
				Regarding 150/5235 4-B, Figures AC 2-1 and 2-2, an engineer from	
				ARPs stated that the charts support the runway being extended to	
54				4,150 when the temperature is higher than 82.5°. But if the sponsor	
	0.4	4.0.0		believes the longer runway is necessary please justify.	
	24	1.8.3	1		
55	24	1.8.3	3	Please explain what is meant by a "local objective"	
				several comments. How many overruns occurred? This objective	
EG	24	100	,	should not be labeled as a local. The runway design criteria	
56	24	1.8.3	3	accounts for RSAs an RPZ for the critical aircraft.	
				This section is being viewed as part of the justification for the	
				statement. Commerce can not be of the P/N. Otherwise, other	
57	24	101	1	commerce alternatives will have to be included. Suggest that this	
٥/	24	1.8.4	1	section be removed.	

			Ī	How would the project "enhance operational safety in low-visibility	
				conditions" without installing an ILS? Would providing a 34:1	
58	25	1.9	third bullet	approach really be enough to make this claim?	
59	25	1.9	last bullet	explain "local objective"	
- 55	20	1.0	last ballet	The summary should be moved up and be made part of the P/N	
				statement and renamed objectives. The document to this point	
				uses safely through out. Either remove the language or change to	
60	25	1.9	all	enhanced safety.	
	20	1.0	un	include the number of alternatives at the beginning of the sentence.	
61	26	2	1	Drop the rest of the sentence after "project"	
- 01	20			In regards to the second and third sentences of the paragraph:	
				Does the fact that B-II aircraft still land at ARB instead of nearby	
				YIP demonstrate that the restrictions put on those aircraft by the	
				short runway are not significant, otherwise these users would land	
				at YIP instead? For clarity, this should be rebutted in order to	
62	26	2.1.1	3	strengthen the Purpose and Need	
	20	2.1.1	Ŭ	What were the criteria used to dismiss these alternatives. For	
				example, there is no mention of environmental impacts etc. in the	
63	26-28	2.1	all	purpose and needs statement	
64	28	2.2	1	how were these alternatives deemed feasible?	
Ų.				Build Alt 3 - label the parallel taxiway that will be extended; will a	
65				portion of the taxiway or all be demolished and reconstructed? Or	
	29	2.2	3	new construction to southwest?	
				For clarity please label the taxiway and runway and the lengths, on	
66	33	Figure 3.4	map	the same map	
				The airport is currently safe. This section implies the airport is	
67	34	2.3.1	2	unsafe.	
				Line of sight is not listed as an objective. Need to make sure the	
				P/N statement is concise, clearly stated, focus, with justification and	
				objectives. Please provide better clarity/flow when tracking the P/N	
68	35	2.3.3	1	section.	
				Clarify that the preferred ALT 3 is to remove 150' from the east end	
69				of the runway, (adding back 150' on the west end) plus the adding	
	35	2.4	1	the 795' and shifting to the southwest	
70	35	2.4	2	Add on to end of first sentence: "except for the ODALS."	
				Third sentence should read: "FAA approval for the relocation of the	
71	35	2.4	2	REILS will be required as part of the proposed action."	
				Fifth sentence should read: "If the decommissioning proposal is	
				finalized, the approach lighting system will be removed and no	
72	35	2.4	2	relocation will occur."	
				This section needs to use the environmental impact categories	
73	36-68	3	all	specified in FAA Order 1050.1F, paragraph 4-1	

				What about the other noise impacts, such as from construction	
74	36	3.1	1	activities?	
	- 00	0.1	· ·	What about evaluation of the no action alternative for noise	
75	36	3.1	all	impacts?	
	- 55	0.1	un	impacio.	
76	36	3.1.1	1	The title of the methodologies need to be included in the paragraph	
			last four		
			bullets on		
77	37	3.1.1	page	Update these sources with more recent versions	
78	39	3.1.3	all	Why not just redo the noise analysis with 2015 data?	
				Noise Contour - Existing Conditions, please clarify the year.	
79	41	4.1	map		
	1	1.1	тар	No build - are the existing conditions still the same? Reasonable	
80				representation?	
	42	4.2	map	ar and a	
81	40	4.0		Preferred Alternative - Please delineate the projection out for the	
	43	4.3	map	next five years	
82	46	Figure 4.4		Is a newer source available than June 2011?	
83	49	Figure 4.7		Is a newer source available than June 2011?	
84	50	3.3.2	4	Update U.S. Census data with more recent source	
85	51	3.3.2	1	Update U.S. Census data with more recent source	
86	51	3.3.2	2	Update U.S. Census data with more recent source	
87	52	3.3.4	4	Update U.S. Census data with more recent source	
88	53	Table 3-2		Update U.S. Census data with more recent source	
				According to the Federal Register EPA 40 CFR Part 81 which was	
00				published in January of 2015, using the latest information from	
89				2012 Annual Fine Particulate Matter NAAQS, Washtenaw	
	55	2.4	4	(Livingston, Macomb etc.) County; PM 2.5 is Unclassified	
	ວວ	3.4	1	attainment. Clarify that the data submitted is correct. In regard to air quality, please provide the data from MDEQ (Do not	
90				see in Appendix D - there is a Land and Water Management and	
90	55	3.4	3	Wetlands letter)	
	33	3.4	3	The discussion does not quite fit affected environment. In terms of	
91	55	3.4	4 thru 7	air quality what is the baseline conditions.	
92	56	3.4	3	Is there are more recent study than the L&B study from 1996?	
93	56	3.4	3	Fourth sentence: which standards is this referring to?	
33	30	J. 4	, ,	Last sentence: The reference to "proposed projects at general	
				aviation airports" is very broad. How could the report know the	
				extent of future projects at all GA airports in MI, especially if the	
94	56	3.4	3	report in 20 years old?	
95	56	3.4	4	Please reword paragraph, as it is very confusing	
			· · · · · · · · · · · · · · · · · · ·		

	1		1	T	T
				It is not clear if this area is in a nonattainment area or maintenance	
				area. Also not how this estimate was achieved. What calculations,	
				models and sources were used. The citing of the court case should	
96	56	3.4	4	be removed and CAA regulations should be cited.	
97	56	3.4	5	First sentence references NOX - what about the other NAAQS?	
98	56	3.4	5	Last sentence: replace "should" with "would"	
	- 00	0.1		How was it determined that the water quality is degraded. Was	
				MDEQ contacted? With out some reliable way of establishing this	
99	57	3.5	1	the baseline for environmental conditions is not met.	
	<u> </u>	0.0	•	Please clarify the status of the NPDES permit, as mentioned in	
100	57	3.5.1	4	secton 4.2.2? The reason for the permit should also be stated.	
			-	Did not find a map that shows the 14 soil units and how their	
101	57	3.5.2	2	location to the proposed action site	
				Did not find a map that shows the wellhead area in relationship to	
102	58	3.5.2	1	the proposed action site.	
				What about soils? The paragraph also mentions a new water line.	
103	58	3.5.2	4	Please provide more info on the water line.	
104	61	3.7	1	What were the results of the survey?	
105	61	3.7	3	Did SHPO/THPO provide concurrence? If so, please state so.	
				Fourth sentence: be more location-specific, as the way the	
				sentence is worded makes it sound the grassy meadows are within	
106	61	3.8	2	the RSA.	
				Last sentence: This discussion should be expanded. What does the	
107	61	3.8	2	agreement call for? Why does it exist?	
				Third sentence: What does the Audubon society think of this? Were	
108	62	3.8	4	they contacted as part of the EA public outreach process?	
109	63	3.9	1	Update June 2009 survey, as this is already seven years old.	
110	63	3.9	3	Last sentence: Did Audubon agree with this as well?	
111				Update letters from 2009 for preferred alternative (Department of	
111	63	3.9	3	Natural Resources have instructions that may have changed)	
				Update June 2009 survey. As part of the wetlands analysis, was	
				USACE contacted? If so, did they make a jurisdictional	
				determination? Are there any wetlands on the Rwy 06 approach, as	
				the USFWS map depicts a wetland area. What about the removal	
112	63	3.10	1	of the ODALS - will this action impact the wetlands?	
]			Was the floodplain analysis and conclusion confirmed with the local	
113	64	3.11	3 and 4	Floodplain Administrator?	
				Agencies should be changed to Agency. A flood plain map that	
				shows the flood plain and the floodway with the proposed action	
114	64	3.11	3	should be included to support the discussion.	

				See US Department of Agriculture NRSC letter, dated September	
115				3, 2009, signed by Steve Olds. Update needed since this Agency	
	64	3.12	1	requested follow up. See Appendix D-7	
116	66	3.14	1	Last sentence: delete "within the light lane"	
110	- 55	0.11	'	Second sentence: Wouldn't these impacts be noted here? Where	
117	66	3.14	2	else would they be noted?	
118	67	3.17		Why is this a separate section, as it is not an impact category?	
119	67	3.18	1	Change to ASTM International Standard 1527-13	
				Last sentence: Add that any contamination encountered would be	
120	68	3.18	2	characterized and handled in accordance with state regulations	
				The title of this section sounds like Section 3. What is the purpose	
121	69	4		of this section? Recommend changing the title to mitigation.	
				Title should be changed to Mitigation. EC was included in the	
122	69	4	-	previous section	
				In regard to the comment concerning Wildlife Hazards. The	
				existence of the various nature features and species of concern	
				should be assessed and part of the EA. FAA does not agree with	
				the position that changing the profile of the airport will not change	
				the relationship to the wildlife and their use of attractants. Only a	
				certified Airport Wildlife Biologist is qualified to make that	
				determination. The response to previous comment did not cite the	
123	-	-	-	participation of a certified Airport Wildlife Biologist.	
124	69	4.2.1	1	Last sentence: Does Audubon agree with this?	
125	70	4.2.2	1	What about BMPs for air and water quality?	
				The last public meeting was held six years ago; a new meeting will	
126	71	5	1	be needed.	
				What were the agencies' comments, at least in summary? What	
127	71	5.1	1	was MDOT's response?	
128	71	5.1	3	What did the local tribes say? Provide a summary.	
129	72	5.2.2	4	Add that another public meeting will be held.	