

Introduction to Appendices
Regarding
Airline and Bus Services Screen Shots

The following three pages are indexes to a series of PDF Screen Shots of Airline and Bus services which were used in the competitive analysis of the Authority's 2018 HSR Plans.

These pages provide a good summary of the information used in the competitive analysis, such as Trip Fares and Travel Time, and they also are a set of pointers to allow the reader to download copies of the PDF Screen Shots from the Web site.

Commercial Airline Services – See Appendix 3.C

A total of 65 commercial flights between various cities in California (including 5 which were in Reno, Nevada) were analyzed in the Air portion of the Report and its supporting Excel spreadsheets sheets. Each of these flights is designated by Origin and Destination (“O-D”) city codes used by the airline industry. For example, SFO is the 3 letter code for San Francisco International airport, and LAX is the 3 letter code of Los Angeles International airport. Therefore, “SFO – LAX”, would mean a flight between the International airports in San Francisco and Los Angeles.

For the competitive analysis of HSR verses Airlines, the cost and time parameters were always measured on a “round trip” basis, so the term “SFO – LAX” means the cost and time parameters of the trip from SFO to LAX plus the cost and time parameters of the trip from LAX to SFO.

On the next 2 pages, “Summary of Commercial Airline Services” about half of the 65 O-Ds are listed on each page. All 65 O-Ds are bundled into 7 different “Folders”, each of which can be downloaded from the Web site. For example. Folder 1, which can be downloaded from the Web site, is a PDF file of 11 pages, each Screen Shot page for a different O-D. The first O-D is between Burbank and Bakersfield and shows a round trip fare of \$771 and a one-way travel time of 300 minutes (Clearly there are no direct, low cost flights between these two cities!). Page 10 in Folder 1 is a screen shot of flights between Los Angeles and San Francisco. With a round trip fare of \$89 and a one-way travel time of 90 minutes (Half the ticket price of HSR and less than half the HSR Phase 1 rail travel time). This LAX-SFO information was captured on September 4, 2018.

All 65 O-Ds are sequenced alphabetically by the O-Ds, so the first is for Burbank (BUR), and the last, on page 2, is for Santa Ana (SNA). As discussed above, if you want to see the screen shot for LAX-SFO, you would find it in Folder 1, page 10. However, if you wanted to see a screen shot for SFO-LAX, you will not find a screen shot page for this O-D. In that case, reverse the sequence of the two cities, from SFO-LAX to LAX-SFO, and you will find it on Folder 1, page 10.

Commercial Bus Services – See Appendix – 3.D

A significant portion of the Authority's ridership forecast comes for “Other Regions”, especially in the Phase 1 period of 2033 and later. As no examples are given by the Authority of where these “Other Regions” are located, a number of possible O-Ds were identified in the Report and analyzed in the Excel Spreadsheets. This analysis included HSR routes documented in the Ridership and Revenue part of the Business Plan, with these routes supplemented by bus services to get the HSR traveler to and from the cities in the Other Region. Additionally, to provided an Air alternative to some of these Other regions,

bus services were sometimes needed to get the traveler from a nearby airport to the identified city in the Other Region.

On the third page, “Summary of Commercial Bus Services” a total of six bus services were used and these are shown in Folder 8. Note the last Bus service, from South Lake Tahoe to Reno, Nevada uses 3 PDF pages. For each O-D city pair on this Summary page, the one-way trip fare and the one-way travel time is presented, and the date the quotation was obtained.

It is important to note that these Bus Services are separate and distinct from the highly subsidized HSR bus service that are planned by the Authority between 1) Sacramento and Madera or Merced in both the SV-CV period of operation and the Phase 1 period of operation; and 2) Los Angeles and Bakersfield in the SV-CV period of operation.

Summary of Commercial Airline Services, Page 1

		<u>One City in a</u>	<u>Other City in a</u>	<u>Airport O-D</u>	<u>Round</u> <u>Trip</u> <u>Fare,</u> <u>\$</u>	<u>1 Way</u> <u>Travel</u> <u>Time,</u> <u>Minutes</u>	<u>Date</u> <u>Quotation</u> <u>Captured</u>
<u>One City in a</u>	<u>Other City in a</u>						
Folder 1	Page						
	1	Burbank	Bakersfield	BUR - BFL	\$771	300	9/26/2018
	2	Burbank	Fresno	BUR - FAT	\$692	242	9/17/2018
	3	Burbank	San Francisco	BUR - SFO	\$153	86	9/4/2018
	4	Burbank	San Jose	BUR - SJC	\$137	74	9/4/2018
	5	Fresno	Bakersfield	FAT - BFL	\$570	220	9/16/2018
	6	Fresno	Los Angeles	FAT - LAX	\$385	71	9/21/2018
	7	Fresno	San Francisco	FAT - SFO	\$523	60	9/9/2018
	8	Fresno	San Jose	FAT - SJC	\$619	254	9/9/2018
	9	Los Angeles	Bakersfield	LAX - BFL	\$906	240	9/11/2018
	10	Los Angeles	San Francisco	LAX - SFO	\$89	90	9/4/2018
	11	Los Angeles	San Jose	LAX - SJC	\$121	74	9/4/2018
Folder 2	Page						
	1	Long Beach	Oakland	LGB - OAK	\$122	76	9/4/2018
	2	Long Beach	San Francisco	LGB - SFO	\$149	88	9/5/2018
	3	Long Beach	San Jose	LGB- SJC	\$169	72	9/5/2018
	4	Monterey	Fresno	MRY - FAT	\$541	219	9/16/2018
	5	Monterey	Los Angeles	MRY - LAX	\$266	88	9/16/2018
	6	Monterey	Reno	MRY - RNO	\$391	270	9/20/2018
	7	Monterey	San Diego	MRY - SAN	\$340	83	9/16/2018
	8	Monterey	San Francisco	MRY - SFO	\$324	53	9/16/2018
	9	Monterey	Sacramento	MRY - SMF	\$541	142	9/16/2018
	10	Oakland	Burbank	OAK - BUR	\$298	80	9/5/2018
	11	Oakland	Fresno	OAK - FAT	\$710	257	9/15/2018
	12	Oakland	Los Angeles	OAK - LAX	\$83	90	9/5/2018
	13	Oakland	Sacramento	OAK - SMF	\$325	188	9/15/2018
	14	Oakland	Santa Ana	OAK - SNA	\$324	327	9/5/2018
Folder 3	Page						
	1	Redding	Fresno	RDD - FAT	\$562	219	9/16/2018
	2	Redding	Los Angeles	RDD - LAX	\$274	214	9/16/2018
	3	Redding	San Diego	RDD - SAN	\$455	209	9/16/2018
	4	Redding	San Jose	RDD - SJC	\$672	540	9/16/2018
	5	Reno	Fresno	RNO - FAT	\$506	170	9/16/2018
	6	Reno	Los Angeles	RNO - LAX	\$300	105	9/6/2018
	7	Reno	San Diego	RNO - SAN	\$364	210	9/16/2018
	8	Reno	San Jose	RNO - SJC	\$201	60	9/6/2018

Summary of Commercial Airline Service, page 2

		<u>One City in a</u> <u>City Pair</u>	<u>Other City in a</u> <u>City Pair</u>	<u>Airport O-D</u>	<u>Round</u> <u>Trip</u> <u>Fare, \$</u>	<u>1 Way</u> <u>Travel</u> <u>Time,</u> <u>Minutes</u>	<u>Date</u> <u>Quotation</u> <u>Captured</u>
Folder 4	Page						
	1	San Diego	Bakersfield	SAN - BFL	\$652	306	9/5/2018
	2	San Diego	Burbank	SAN - BUR	\$308	263	9/15/2018
	3	San Diego	Fresno	SAN - FAT	\$249	195	9/5/2018
	4	San Diego	Los Angeles	SAN - LAX	\$274	53	9/15/2018
	5	San Diego	Merced	SAN - MCE	\$466	465	9/5/2018
	6	San Diego	Oakland	SAN - OAK	\$176	206	9/5/2018
	7	San Diego	San Francisco	SAN - SFO	\$195	87	9/5/2018
	8	San Diego	San Jose	SAN - SJC	\$232	84	9/7/2018
	9	San Diego	Sacramento	SAN - SMF	\$196	103	9/5/2018
Folder 5	Page						
	1	Santa Barbara	Fresno	SBA - FAT	\$523	228	9/16/2018
	2	Santa Barbara	Los Angeles	SBA - LAX	\$345	56	9/18/2018
	3	Santa Barbara	Monterey	SBA - MRY	\$544	188	9/16/2018
	4	Santa Barbara	Redding	SBA - RDD	\$564	230	9/16/2018
	5	Santa Barbara	Reno	SBA - RNO	\$516	261	9/16/2018
	6	Santa Barbara	San Diego	SBA - SAN	\$531	158	9/16/2018
	7	Santa Barbara	Sacramento	SBA - SMF	\$520	277	9/16/2018
	8	San Francisco	Bakersfield	SFO - BFL	\$291	80	9/15/2018
	9	San Francisco	Sacramento	SFO - SMF	\$189	53	9/15/2018
Folder 6	Page						
	1	San Jose	Bakersfield	SJC - BFL	\$730	420	9/9/2018
	2	San Jose	Fresno	SJC - FAT	\$461	254	9/15/2018
	3	San Jose	Redding	SJC - RDD	\$672	540	9/18/2018
	4	San Jose	San Diego	SJC - SAN	\$194	84	9/5/2018
	5	San Jose	Santa Barbara	SJC - SBA	\$746	337	9/16/2015
	6	San Jose	Sacramento	SJC - SMF	\$308	300	9/15/2018
Folder 7	Page						
	1	Sacramento	Bakersfield	SMF - BFL	\$546	220	9/15/2018
	2	Sacramento	Burbank	SMF - BUR	\$181	263	9/5/2018
	3	Sacramento	Fresno	SMF - FAT	\$510	220	9/15/2018
	4	Sacramento	Los Angeles	SMF - LAX	\$154	96	9/5/2018
	5	Sacramento	Stockton	SMF - SCK	\$1,864	14	9/17/2018
	6	Sacramento	Santa Ana	SMF - SNA	\$254	187	9/5/2018
	7	Santa Ana	San Francisco	SNA - SFO	\$208	92	9/5/2018
	8	Santa Ana	San Jose	SNA - SJC	\$192	77	9/5/2018

Summary of Commercial Bus Services, Page 1

		<u>One City in a City Pair</u>	<u>Other City in a City Pair</u>	<u>1 Way Trip Fare, \$</u>	<u>1 Way Travel Time, Minutes</u>	<u>Date Quotation Captured</u>
Folder 8	Page					
	1	Fresno	Yosemite	\$15	217	11/5/2017
	2	Monterey	San Jose	\$21	152	11/15/2017
	3	Redding	Sacramento	\$34	230	11/15/2017
	4	Sacramento	Merced	\$28	180	12/16/2017
	5	Santa Barbara	Los Angeles	\$13	180	11/15/2017
	6	South Lake Tahoe	Reno - Page 1	\$30	82	9/15/2018
	7	South Lake Tahoe	Reno - Page 2			
	8	South Lake Tahoe	Reno - Page 3			