

APPENDIX B
DETAILED FACILITY REQUIREMENTS CALCULATIONS
TERMINAL FACILITIES

Table B-1
 TERMINAL FACILITY DEFICIENCIES, TERMINAL 1

	EXISTING		1987 REQ		1987	1992 REQ		1992	1997 REQ		1997	2002 REQ		2002	2007 REQ		2007	
	LP	SP	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT	
AIRLINE REVENUE SPACE																		
Ticket counter	198	1728	99	988	740	TERMINAL DEMOLISHED												
Ticket counter passenger queuing		1498		1482	16													
Ticket office		7523		2470	5053													
Outbound baggage		507		490	-17													
Inbound baggage delivery		800		3456	-2656													
Baggage claim	260	4960	230	6912	-1952													
Operations and maintenance		9807		17158	-8143													
Departure area		19288		16808	2480													
Airline club		0		3800	-3800													
Subtotal		45383		57198	-10615													
CONCESSIONS-FOOD																		
Food preparation		876		3974	-3098													
Restaurant and snack bar		797		7153	-6356													
Cocktail lounge		797		3974	-3177													
Miscellaneous food and bev.		389		795	-406													
Subtotal		2679		15896	-13217													
CONCESSIONS-OTHER																		
News/gift/sundry sales		1860		3891	-1231													
Car rental	60	768		1425	-657													
Other concessions		1789		215	1574													
Subtotal		4417		4731	-314													
SECURED PUBLIC AREAS																		
Circulation-concourse		1187		13980	-12713													
Restrooms		1500		2621	-1121													
Other		0		0	0													
Subtotal		2687		16601	-13914													
NON-SECURED PUBLIC AREAS																		
Circulation-ticketing		1866		3458	-1592													
Circulation-baggage claim		800		5760	-4960													
Circulation-other		9825		6425	2600													
Restrooms		1378		2621	-1251													
Subtotal		13869		18264	-4395													
NON-PUBLIC AREAS																		
Airport administration		0		0	0													
Airport police/security		0		0	0													
Fire exits		568		4584	-3944													
Bldg. maintenance and mechanical		362		11261	-10899													
Building structure		3485		5638	-2145													
Other		0		0	0													
Subtotal		4407		21395	-16988													

B-1

Table B-2
 TERMINAL FACILITY DEFICIENCIES, TERMINAL 2

	1987		1987			1992			1997			2002			2007		
	LP	SP	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT
AIRLINE REVENUE SPACE																	
Ticket counter	270	2700	216	2160	540	184	1840	660	184	1840	660	TERMINAL DEMOLISHED					
Ticket counter passenger queuing		2700		3240	-540		2760	-60		2760	-60						
Ticket office		7127		5400	1727		4600	2527		4600	2527						
Outbound baggage		9225		6500	2725		8550	675		10925	-1700						
Inbound baggage delivery		3256		4050	-794		5325	-2069		6795	-3539						
Baggage claim	390	9260	162	8860	4400	213	6390	2870	272	8154	1106						
Operations and maintenance		29270		18100	11170		25850	3420		34650	-5300						
Departure area		35902		32200	3702		35800	102		35800	102						
Airline club		5078		0	5078		0	5078		0	5078						
Subtotal		104590		76510	28080		91115	13463		105524	-926		0			0	
CONCESSIONS-FOOD																	
Food preparation		9522		8153	1369		8774	748		6130	3384						
Restaurant and snack bar		9998		7475	2523		8592	1406		11848	-1850						
Cocktail lounge		6231		8153	2078		4774	1457		6130	93						
Miscellaneous food and bev.		915		831	84		955	-40		1220	-313						
Subtotal		26666		16612	10054		19095	7571		24552	2114		0			0	
CONCESSIONS-OTHER																	
Men's/gift/laundry salon		5078		3264	1814		3817	1261		5081	797						
Car rental	160	1665		1470	195		1544	121		1887	570						
Other concessions		9573		227	9346		268	9305		359	9214						
Subtotal		17116		4961	12155		5629	11487		6527	10589		0			0	
SECURED PUBLIC AREAS																	
Circulation-concourse		44239		22200	22039		24000	19439		24000	19439						
Restrooms		2560		2760	-200		3953	-1393		5295	-2735						
Other		0		0	0		0	0		0	0						
Subtotal		46799		24960	21831		27953	14046		30295	16700		0			0	
NON-SECURED PUBLIC AREAS																	
Circulation-ticketing		4320		7560	-3240		6440	-2120		6440	-2120						
Circulation-baggage claim		4855		4050	805		5325	-470		6795	-1940						
Circulation-other		19890		6750	13140		9375	10515		12375	7515						
Restrooms		2926		2760	150		3953	-1027		5295	-2369						
Subtotal		31991		21120	10863		25093	6090		30905	1086		0			0	
NON-PUBLIC AREAS																	
Airport administration		1313		0	0		0	0		0	0						
Airport police/security		0		0	0		0	0		0	0						
Fire exits		1152		7569	-6417		6787	-5635		7933	-6781						
Bldg. maintenance and mechanical		24847		18923	5924		16968	7879		19832	5015						
Building structure		7635		9461	-1826		8484	-849		9916	-2281						
Other		0		0	0		0	0		0	0						
Subtotal		34947		35953	-1006		32239	2708		37681	-2734		0			0	
TOTAL DOMESTIC TERMINAL BUILDING		262117		180132	81985		201924	60193		235204	26033		0			0	

B-2

Table B-3
 TERMINAL FACILITY DEFICIENCIES, TERMINAL 3, SCENARIO 1

	EXISTING		1997 RQ			1992 RQ			1997 RQ			2002 RQ			2007 RQ		
	LP	SP	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT
AIRLINE REVENUE SPACE																	
Ticket counter	363	3630	355	3553	77	204	2041	1509	252	2517	1113	216	2160	1470	202	2019	1211
Ticket counter passenger queuing		5209		5329	-40		3061	2220		3775	3510		3239	2050		3620	1661
Ticket office		13996		8081	5115		5101	8095		6292	7705		5399	8597		6046	7950
Outbound baggage		30320		25375	8945		10575	19745		17975	16345		15425	18095		17275	17045
Inbound baggage delivery		25790		15010	9900		9075	16715		11190	14600		9615	16175		10755	15035
Baggage claim	950	19420	632	10972	440	363	10090	8530	400	13020	5992	305	11530	7002	630	12906	6514
Operations and maintenance		71530		70500	1030		40150	27300		57050	14400		50600	20930		57550	13900
Departure area		66360		69100	-3440		40000	17560		50000	15960		45000	21360		45000	21360
Airline club		11300		6000	5300		6000	5300		6000	5300		6000	5300		6000	5300
Subtotal		251643		224220	27423		143693	107950		160626	83017		140976	102667		161979	90064
CONCESSIONS-FOOD																	
Food preparation		19551		14023	5520		7614	11937		9512	10039		8616	10935		9700	9051
Restaurant and snack bar		11700		25242	-13542		13705	-2005		17121	-5021		15509	-3009		17460	-5760
Cocktail lounge		7690		14023	-6333		7614	76		9512	-1022		8616	-926		9700	-2010
Miscellaneous food and bev.		1260		2005	-1537		1523	-255		1902	-630		1723	-455		1900	-672
Subtotal		40209		56093	-15884		30456	9753		30047	2162		34064	5745		30000	1409
CONCESSIONS-OTHER																	
News/gift/undry sales		12900		12729	171		6509	6391		4276	4624		7391	5509		4393	4507
Car rental	100	2147		3995	-1840		2211	-64		2500	-401		2306	-159		2509	-362
Other concessions		11461		805	10576		450	11003		500	10077		520	10937		597	10064
Subtotal		26500		17609	8899		9170	17330		11400	15060		10221	16207		11099	15009
SECURED PUBLIC AREAS																	
Circulation-concourse		40450		50000	-10350		35500	4950		35300	5150		31400	9050		31400	9050
Restrooms		4040		10770	-6730		6746	-2706		8723	-4603		7733	-3693		8001	-4761
Other		0		0	0		0	0		0	0		0	0		0	0
Subtotal		40490		61570	-17000		42246	2244		44023	467		39133	5357		40201	4209
NON-SECURED PUBLIC AREAS																	
Circulation-ticketing		8960		12434	-3474		7142	1010		8000	152		7550	1402		8065	895
Circulation-baggage claim		7190		15010	-8616		9075	-1001		11190	-3996		9615	-2421		10755	-3561
Circulation-other		80252		24550	63702		15600	72653		19975	60277		17753	70497		20150	60102
Restrooms		3705		10770	-7073		6746	-3041		8723	-5010		7733	-4020		8001	-5096
Subtotal		100111		63572	44539		30563	69500		40696	59415		42661	65490		40171	59900
NON-PUBLIC AREAS																	
Airport administration		22097		22000	97		22000	97		27000	-4903		30000	-7903		32000	-9903
Airport police/security		800		500	300		500	300		800	0		800	0		1000	-200
Fire exits		10021		16923	3000		10565	7456		12434	5507		11019	7002		12010	6011
Bldg. maintenance and mechanical		67291		42307	24984		26413	40070		31004	36207		27507	39744		30025	37266
Building structure		10927		21153	-2226		13207	5720		15562	3305		13774	15674		15013	3914
Other		0		0	0		0	0		0	0		0	0		0	0
Subtotal		127116		102003	24253		72605	54051		86060	40276		83140	43996		90040	37000
TOTAL DEFICIENCY DEFICIT		591007		525955	72142		336021	261276		397700	200397		358595	239502		390290	207799

B-3

Table B-4
 TERMINAL FACILITY DEFICIENCIES, TERMINAL 4, SCENARIO 1

	PROPOSED		1987 RQ		1987	1992 RQ		1992	1997 RQ		1997	2002 RQ		2002	2007 RQ		2007	
	LP	SP	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT	LP	SP	DEFICIT	
AIRLINE RAMP/SPACE																		
Ticket counter	344	3440	UNCONSTRUCTED			340	3798	-358	494	4942	-1502	864	8642	-5202	967	9671	-6231	
Ticket counter passenger queuing		5160		0			5696	-536		7413	-2253		12962	-7802		14506	-9346	
Ticket office		12760		0			9494	3266		12355	405		21604	-8044		24176	-11416	
Outbound baggage		58756		0			27125	23631		35300	15456		61725	-18969		69075	-10319	
Inbound baggage delivery		36026		0			16490	19116		21990	14036		38445	-2419		43050	-7024	
Baggage claim	690	21482	0	0		676	20268	1214	880	26388	-4906	1538	46134	-24652	1722	51668	-30178	
Operations and maintenance		82555		0			82200	355		112100	-29545		202300	-119745		230300	-147745	
Departure area		58300		0			75700	-25400		80300	-30000		142800	-92500		157100	-106800	
Airline club		3600		0			3000	600		6000	-2360		6000	-2360		9000	-5360	
Subtotal		266119		0			244171	21940		306700	-40669		540612	-274093		608530	-342419	
CONCESSIONS-FOOD																		
UNDETERMINED																		
Food preparation		0		0			13531	-13531		18181	-18181		32214	-32214		36551	-36551	
Restaurant and snack bar		0		0			24355	-24355		32727	-32727		57985	-57985		65792	-65792	
Cocktail lounge		0		0			13531	-13531		18181	-18181		32214	-32214		36551	-36551	
Miscellaneous food and bev.		0		0			2706	-2706		3636	-3636		6443	-6443		7310	-7310	
Subtotal		0		0			54123	-54123		72725	-72725		128856	-128856		146204	-146204	
CONCESSIONS-OTHER																		
UNDETERMINED																		
News/gift/sundry sales		0		0			12122	-12122		16439	-16439		29562	-29562		33572	-33572	
Car rental		0		0			3599	-3599		4505	-4505		7424	-7424		8238	-8238	
Other concessions		0		0			852	-852		1162	-1162		2098	-2098		2387	-2387	
Subtotal		0		0			16573	-16573		22106	-22106		39084	-39084		44197	-44197	
SECURED PUBLIC AREAS																		
Circulation-concourse		78200		0			56800	13400		60600	9600		102800	-32600		111000	-48800	
Restrooms		7200		0			12563	-5363		17134	-9934		38926	-23726		35209	-28009	
Other		0		0			0	0		0	0		0	0		0	0	
Subtotal		77400		0			69363	8037		77734	-334		133726	-56326		146209	-68809	
NON-SECURED PUBLIC AREAS																		
Circulation-ticketing		7200		0			13291	-6091		17297	-10097		38245	-23045		33847	-26647	
Circulation-baggage claim		19800		0			16490	2910		21990	-2190		38445	-18645		43050	-23250	
Circulation-other		100371		0			28525	71846		38675	61696		69325	31046		78850	21521	
Restrooms		4260		0			12563	-8303		17134	-12874		38926	-26666		35209	-38949	
Subtotal		131631		0			71269	60362		95096	36535		168941	-37310		198956	-58325	
NON-PUBLIC AREAS																		
Airport administration		0		0				0			0			0			0	
Airport police/security		0		0				0			0			0			0	
Fire exits		28576		0			52542	-27966		25786	-1210		44088	-19512		49181	-24525	
Bldg. maintenance and mechanical		85245		0			26271	58974		64464	20781		110221	-24976		122753	-37588	
Building structure		20219		0			27075	-6856		32332	-12013		55111	-34892		61376	-41157	
Other		22054		0			0	22054		0	22054			22054			22054	
Subtotal		152094		0			105888	46206		122482	29612		209420	-57326		233230	-81136	
TOTAL DOMESTIC TERMINAL BUILDING		627244		0			561387	65857		696931	-69607		1220639	-593395		1369334	-742090	

B-4

Table B-5
 TERMINAL FACILITY DEFICIENCIES, TERMINAL 3, SCENARIO 2

	EXISTING		1987 RRG		1987	1992 RRG		1992	1997 RRG		1997	2002 RRG		2002	2007 RRG		2007	
	LF	SP	LF	SP	DEFICIT	LF	SP	DEFICIT	LF	SP	DEFICIT	LF	SP	DEFICIT	LF	SP	DEFICIT	
AIRLINE REVENUE SPACES																		
Ticket counter	363	3630	355	3553	77	309	3094	516	396	3955	-325	370	3700	-150	423	4232	-602	
Ticket counter passenger queuing		5209		5329	-40		4641	440		5933	-644		5670	-381		6347	-1058	
Ticket office		13996		8001	5115		7735	6261		9000	4100		9450	4546		10579	3417	
Outbound baggage		34320		25375	8945		22100	12220		20250	6070		27000	7320		30225	4095	
Inbound baggage delivery		25790		15801	9989		13770	12020		17595	8195		16015	8975		18025	6965	
Baggage claim	550	19420	632	18972	448	551	16524	2096	704	21114	-1694	673	20178	-750	753	22590	-3170	
Operations and maintenance		71530		70500	1030		66950	4580		89650	-18112		80500	-16962		100750	-29212	
Departure area		66360		69000	-3440		60000	-1640		60000	-1640		62600	3760		62600	3760	
Airline club		11300		6000	5300		6000	5300		6000	5300		6000	5300		6000	5300	
Subtotal		251643		224211	27432		208814	42829		250385	1250		239993	11650		262140	-10595	
CONCESSIONS-FOOD																		
Food preparation		19551		14023	5528		11164	8307		14695	4856		14515	5036		16413	3130	
Restaurant and snack bar		11700		25242	-13542		20095	-8395		26451	-14751		26120	-14420		29543	-17843	
Cocktail lounge		7690		14023	-6333		11164	-3474		14695	-7805		14515	-6825		16413	-8723	
Miscellaneous food and bev.		1260		2805	-1537		2233	-965		3939	-1671		2903	-1635		3203	-3035	
Subtotal		40209		56093	-15084		46656	-4407		58700	-10571		50061	-17052		65652	-25403	
CONCESSIONS-OTHER																		
Books/gift/sundry sales		12900		12729	171		9877	3023		13151	-251		12932	-32		14609	-1709	
Car rental	100	2147		3995	-1848		3044	-897		3724	-1577		3516	-1439		3941	-1794	
Other concessions		11461		805	10576		694	10767		930	10531		919	10542		1044	10417	
Subtotal		26500		17609	8899		13615	12093		17405	8703		17437	9071		19674	6834	
SECURED PUBLIC AREAS																		
Circulation-concourse		40450		50000	-10350		40300	-7850		40300	-7850		44400	-3950		44000	-3950	
Restrooms		4000		10770	-6770		10230	-6190		13706	-9666		13530	-9490		15405	-11365	
Other		0		0	0		0	0		0	0		0	0		0	0	
Subtotal		44450		61570	-17080		50530	-14044		62006	-17516		57930	-13440		59405	-15315	
NON-SECURED PUBLIC AREAS																		
Circulation-ticketing		8960		12434	-3474		10829	-1869		13063	-4083		13230	-4270		14030	-5050	
Circulation-baggage claim		7194		15010	-7816		13770	-6576		17595	-10401		16015	-8621		18025	-11631	
Circulation-other		80252		24550	63702		23350	64902		31050	57202		30675	57577		34025	53427	
Restrooms		3705		10770	-7073		10234	-6529		13706	-10001		13530	-9825		15405	-11700	
Subtotal		100111		63572	46539		58183	49928		76194	31917		74250	33861		83065	24246	
NON-PUBLIC AREAS																		
Airport administration		22097		22000	97		22000	97		27000	-4903		30000	-7903		32000	-9903	
Airport police/security		800		800	0		800	0		800	0		800	0		1000	-200	
Fire exits		18021		16923	1098		18149	-120		21415	-3394		21547	-3526		23303	-5282	
Bldg. maintenance and mechanical		67291		42307	24984		45373	21918		53536	13755		53866	13425		58257	9034	
Building structure		18927		21153	-2226		22686	-3759		26764	-7841		26933	-8066		29120	-10201	
Other		0		0	0		0	0		0	0		0	0		0	0	
Subtotal		127136		103183	23953		109008	18128		129519	-2383		133146	-6010		143600	-16552	
TOTAL DOMESTIC TERMINAL BUILDING		590097		526246	71851		492810	105207		594689	3400		580817	17200		634832	-36735	

Table B-6
 TERMINAL FACILITY DEFICIENCIES, TERMINAL 4, SCENARIO 2

	EXISTING		1987 HQ		1987	1992 HQ		1992	1997 HQ		1997	2002 HQ		2002	2007 HQ		2007	
	LP	SP	LP	SP	DEFICIENCY	LP	SP	DEFICIENCY	LP	SP	DEFICIENCY	LP	SP	DEFICIENCY	LP	SP	DEFICIENCY	
AIRLINE ROYALTY SPACE																		
Ticket counter	244	3440	0	0	3440	274	2744	696	351	3507	-67	702	7021	-3501	786	7850	-6610	
Ticket counter passenger queuing		5160			5160		4116	1044		5260	-100		18532	-5372		11786	-6626	
Ticket office		12760			12760		6860	5900		8760	3992		17553	-4793		19644	-6004	
Outbound baggage		50756			50756		19600	31156		25050	25706		58150	606		56125	-5369	
Inbound baggage delivery		36026			36026		12210	23816		15600	20426		31245	4781		34980	1046	
Baggage claim	690	21482	0	0	21482	488	14652	6830	624	14720	2762	1250	37494	-16012	1399	41976	-20496	
Operations and maintenance		82555			82555		60200	22355		79500	3055		164400	-81845		187100	-104545	
Departure area		50300			50300		56500	-6200		63600	-13300		125200	-74900		139500	-89200	
Airline club		3640			3640		3000	640		6000	-2360		6000	-2360		9000	-5360	
Subtotal		266119			266119		179882	86237		226885	48114		449595	-183476		587969	-241850	
CONCESSIONS-FOOD																		
Food preparation		0			0		9981	-9981		13110	-13110		26314	-26314		29830	-29830	
Restaurant and snack bar		0			0		17965	-17965		23599	-23599		47366	-47366		53789	-53789	
Cocktail lounge		0			0		9981	-9981		13110	-13110		26314	-26314		29830	-29830	
Miscellaneous food and bev.		0			0		1996	-1996		2622	-2622		5263	52		5960	-5960	
Subtotal		0			0		39923	-39923		52041	-52041		105257	-105257		119353	-119353	
CONCESSIONS-OTHER																		
News/gift/sundry sales		0			0		8755	-8755		11657	-11657		24019	-24019		27279	-27279	
Car rental	100	0			0		2766	-2766		3369	-3369		6145	-6145		6885	-6885	
Other concessions		0			0		615	-615		824	-824		1704	-1704		1939	-1939	
Subtotal		0			0		12136	-12136		15850	-15850		31068	-31068		36023	-36023	
SECURED PUBLIC AREAS																		
Circulation-concessions		78200			78200		44000	26200		47900	22300		89800	-19600		98000	-27800	
Restrooms		7200			7200		9135	-1935		12150	-4950		25129	-17929		28685	-21485	
Other		0			0		0	0		0	0		0	0		0	0	
Subtotal		77400			77400		53135	24265		60050	17350		114929	-37529		126685	-49285	
NON-SECURED PUBLIC AREAS																		
Circulation-ticketing		7200			7200		9604	-2404		12274	-5074		24574	-17374		27581	-20381	
Circulation-baggage claim		19800			19800		12210	7590		15600	4200		31245	-11445		34980	-15180	
Circulation-other		100371			100371		20900	79471		27600	72771		56450	43921		29285	71166	
Restrooms		4260			4260		9135	-4875		12150	-7890		25129	-20869		28685	-24345	
Subtotal		131631			131631		51849	79782		67624	6407		137398	-5767		120291	11300	
NON-PUBLIC AREAS																		
Airport administration		0			0		0	0		0	0		0	0		0	0	
Airport police/security		0			0		0	0		0	0		0	0		0	0	
Fire exits		24576			24576		13477	11099		16879	7697		33562	-8986		37880	-13232	
Bldg. maintenance and mechanical		85245			85245		33692	51553		42197	43048		83985	1340		94521	-9276	
Building structure		20219			20219		16846	3373		21899	-880		41952	-21733		47261	-27042	
Other		22054			22054		0	22054		0	22054		22054	22054		22054	22054	
Subtotal		152094			152094		64015	88079		80175	71919		159419	-7325		179590	-27496	
		409944			409944		409944	226304		502145	125099		998466	-371222		1089831	-462587	

B-6