Appendix G4 Intermodal Rail Analysis

(An introduction was added to Appendix G4 (Intermodal Rail Analysis) describing the tables in the Appendix and the methodology used to derive the data in the tables. Also, the line "Draft, Confidential, Attorney-Client Privilege" was removed from all Appendix G4 tables.)

Appendix G4: Intermodal Rail Analysis

In order to assess the impacts of the SCIG project on at-grade railroad crossings in the region, it was necessary to estimate train volumes by type, length and time of day for all rail lines potentially impacted by the project. The overall methodology and results for this assessment are described in Section 3.10.

Appendix G4 describes key intermediate steps in the analysis. Specifically, Appendix G4 documents the results of the intermodal train volume calculations by railroad, market segment, and railyard, and the resulting intermodal (container and trailer) train volumes by length. These volumes are then assigned to specific track segments on the regional rail network. These calculations are done in a spreadsheet model called "Train Builder". The train volumes by track segment are then input to the separate grade crossing delay model, known as "At Grade". The grade crossing impact model also takes into account other types of freight trains (bulk, auto, carload) as well as passenger trains, but this appendix only explains how intermodal train volumes are estimated. The SCIG project has an effect on intermodal train volumes only.

"Train Builder" estimates train volumes for the following three distinct market segments:

Direct intermodal containers from the Ports (intact marine containers that are not transloaded). This market is also known as "Inland Point Intermodal (IPI)." Shipments are made under a single ocean carrier bill of lading. Ocean carriers contract with the railroads for this service. The SCIG project will handle IPI containers only.

Transloaded containers (cargo that has been first taken out of 40-foot containers at a warehouse and then placed into 53-foot domestic containers before arriving at the railyard).

"Pure" domestic cargo in either domestic 53-foot containers or trailers (cargo that has not passed through the Ports).

It is necessary to break the volumes down by these three market segments, because each market uses a different type of intermodal railroad equipment. This impacts how trains are loaded and how long they are. The "Train Builder" model was used to estimate train volumes by length.

The parameters in "Train Builder" for estimating intermodal (containerized) rail volumes and train lengths include:

Annual Twenty-foot Equivalent Units (TEUs) handled by individual railyards

Monthly peaking factor to account for seasonal variation in cargo throughputs at the Ports

Average rail car length (depends on the mix of cars of varying lengths that make up the trains). This parameter varies by market segment

Locomotive length

Number of locomotives per train for different train lengths

Number of rail cars per train for different train lengths

Slot utilization (percentage of rail car capacity actually used by containers. For example, a five-well rail car has the capacity for 10 double-stacked containers. If only nine containers are loaded onto the car, then the slot utilization is 90%).

Distribution of trains by length (percentage of trains that are 6,000 feet, 8,000 feet, 10,000 feet, and 12,000 feet long, including locomotives)

Capacity of railyards in lifts per year

Beginning on Page G4-9 are tables showing the estimated demand by market and railyard in terms of "lifts" and then later in terms of TEUs for scenarios 1-14. The TEU volumes are identical to the figures shown in the first set of tables, which start on page G4-5. A "lift" is the movement of a container from a truck to a train or vice versa. The TEU figures represent "marine equivalent TEUs" and take into account the relative cargo-carrying capacity of marine and domestic containers. For example, a 53-foot domestic container is equivalent to 3 marine TEUs in terms of cargo-carrying capacity. A conversion factor of 1.80 TEU per lift is used for the baseline 2010 year, and a conversion factor of 1.85 TEU per lift is used for future years.

The starting point for the analysis was to estimate 2010 baseline volumes by railyard and market. These results are shown under Scenario 1 (Baseline 2010) in the following table. Volumes in TEUs are shown for IPI containers (loads and empties), transloaded (TL) containers (loads only), and pure domestic (DOM) containers and trailers (loads and empties). In the table, these three market segments are designated with the following column headings, respectively: "IPI L + E", "TL L", and "Dom L + E". Total TEUs are also shown in the table and they are the sum of the values for the three separate markets. There is no evidence that there is any westbound (or exported) transload volumes from rail to marine container. The transload volumes shown in the table are all eastbound loads (imports). These 53-foot containers return either as empties or as westbound domestic cargo loads. Those volumes are counted in the Dom L + E column. IPI, direct intermodal volumes in lifts are updated annually by the railroads and provided to the ports, as well as total lifts at railyards. The analysis assumed that 27% of loaded imports through the ports are transloaded to rail (Cambridge, 2013), and therefore the pure domestic volumes were estimated as the difference between the (IPI + transloaded) lifts, and the total lifts.

Marine containers loaded or unloaded on-dock are shown in the "IPI L +E" column only, since on-dock yards do not handle transloaded or pure domestic containers. The tables show volumes in both lifts and TEUs, marked as "Demand in Lifts" and "Demand in TEUs".

Next, the table shows the estimated number of intermodal trains by market and by length associated with the TEU volumes previously described. For example, it has been estimated that the on-dock railyards generated a total of 22.1 trains per day and the off-dock railyards (including the ICTF, which is often referred to as a "near-dock railyard") generated an estimated 41.1 intermodal trains per day in 2010.

The table breaks down the estimated off-dock rail volumes by railyard (on-dock volumes are shown as a whole, shown in both lifts and TEUs.) As described in Chapter 3, the BNSF Railway operates intermodal terminals for containers and trailers at **Hobart Yard**

(in the City of Commerce) and at **San Bernardino**. The Union Pacific Railroad (UPRR) operates intermodal terminals at:

East Los Angeles Yard (ELA) at the west end of the UPRR Los Angeles Subdivision

Los Angeles Transportation Center (LATC) at the west end of the UPRR Alhambra Subdivision

City of Industry (COI) on the UPRR Alhambra Subdivision, and the

Intermodal Container Transfer Facility (ICTF) near the south end of the Alameda Corridor.

UPRR also has a large carload freight classification yard at West Colton (at the east end of the Alhambra Subdivision). A large auto unloading terminal is located at Mira Loma (mid-way between Pomona and West Riverside on the Los Angeles Subdivision). These facilities are not used to load containers or trailers, so they are not covered in this appendix.

In addition, both UPRR and BNSF operate trains hauling marine containers (direct intermodal) that originate or terminate at **on-dock** railyards within the POLA and POLB.

In addition to the Baseline 2010 case, the table also shows estimated volumes for several different scenarios, as listed below:

Scenario 2: Baseline 2010 With Project. This scenario superimposes the maximum SCIG volume for 2035 (maximum capacity of 2,775,000 TEUs) onto 2010 Baseline conditions. The SCIG volume consists of IPI (direct intermodal) marine containers only. It is assumed that Hobart Yard would handle 5% of BNSF's marine containers even after the SCIG is built to accommodate shipments that cannot be handled at SCIG due to low volume destinations, "missed connections" or other logistical reasons.

Scenario 3: 2016 No Project.

Scenario 4: 2016 With Project

Scenario 5: 2023 No Project

Scenario 6: 2023 With Project

Scenario 7: 2035 No Project

Scenario 8a: 2035 With Project assuming equal BNSF-UP IPI market shares

Scenario 8b: 2035 With Project assuming maximum demand for SCIG (2,7550,000 TEUs) resulting in higher IPI market share for BNSF.

Scenario 9: 2046 No Project

Scenario 10a: 2046 With Project assuming equal BNSF-UP IPI market shares

Scenario 10b: 2046 With project assuming maximum demand for SCIG (2,7550,000 TEUs) resulting in higher IPI market share for BNSF.

Scenario 11: 2020 No Project

Scenario 12: 2020 With Project

Scenario 13: 2030 No Project

Scenario 14: 2030 With Project

Since the Ports are assumed to be operating at capacity by 2035 there is no difference between the 2035 and 2046 IPI and Transload volumes. Pure domestic volumes, however, are assumed to continue to grow at a rate of 2% per year with or without SCIG being built. The market demand for pure domestic cargo and transload cargo is independent of a project's capacity. In the case of the SCIG project, the region's economy drives the demand for domestic and transload cargo which would grow at a rate unrelated to capacity at Hobart. A facility's capacity does not create growth in demand. It is assumed that the BNSF will ultimately improve Hobart yard to accommodate the projected demand for transload and domestic cargo, as driven by the regional economy. The SCIG project is expected to handle only direct intermodal containers from the Ports (intact marine containers that are not transloaded). This market is also known as "Inland Point Intermodal (IPI)".

In 2046, Scenario 10b, the estimated train volumes include a total of 66.3 on-dock intermodal trains per day and a total of 84.7 off-dock intermodal trains per day (including the ICTF and SCIG). The "Train Builder" model assigns projected container demand by market to railyards, taking into account the relative lift capacity of each yard. Based on railyard capacity estimates prepared independently by Parsons and by AECOM, the off-dock railyards will be able to handle the projected demand. This assumes that the off-dock railyards will be able to install wide-span gantry cranes and make other operational improvements to increase capacity. Both the SCIG and the improved ICTF railyard will employ wide span gantry cranes to improve efficiency and capacity.

	Title	Description	SCIG	ICTF	Other rail	Off-dock rail	Transload	Yard	% Lifts	IPI L+E	TL L TEUs	Dom ! +E	Total TEUs	12K		E IM Tra		Total	12K	TL L 10K	- IM Tra 8K		Total	12K		L+E IM T 8K		Total	12K		I IM Tra 8K	ins 6K
	Title	Description	included		projects (e.g.,		permitted at SCIG and ICTF? (Domestic not permitted at ICTF and SCIG)	Taru	Capacity Utilization	TEUs	ILL IEUS	TEUs	Total TEUS	12K	TUK	or	er.	Total	IZK	IUK	on	or.	Total	121	IUK	on	or.	Total	121	TUK	or	O.
Baseline	ne 2010	2010 conditions	No	No	No	2010 conditions		On-Dock Yards Total		3,312,578			3,312,578		6.6	8.8		22.1											0.0	6.6	8.8	6.6
							volume at ICTF in 2010: 3,752 lifts	On-Dock Yards BNSF Total On-Dock Yards UP Total		1,866,821 1,445,756			1,866,821 1,445,756	0.0 0.0	3.7 2.9	5.0 3.9	3.7 2.9	12.5 9.6											0.0	3.7 2.9	5.0 3.9	3.7 2.9
							48+ foot containers	Off-Dock Yards Total		1,642,151	1,917,754	3,195,640			3.3	4.4			0.0	3.8	4.7	0.9	9.4	0.0	4.4	12.0	4.3	20.7	0.0	11.4	21.1	8.5
								BNSF Off-Dock Yards Total		807,466	915,349	1,853,853		0.0	1.6	2.2	1.6	5.4	0.0	1.8	2.3	0.5	4.5	0.0	2.1	8.0	3.2	13.3	0.0	5.5	12.4	5.3
								Hobart & Commerce Yards San Bernardino Yard	56.9% 64.8%	807,219 247	505,585 409,764	1,004,236 849,617		0.0	1.6 0.0	0.0	1.6 0.0	5.4 0.0	0.0	1.0 0.8	1.2 1.0	0.2 0.2	2.5 2.0	0.0	1.1	4.4 3.6	1.8	7.3	0.0	3.7 1.8	7.8	3.6 1.6
								SCIG Yard	N/A	0	0	040,017	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								Additional BNSF Yard Capacity Needed		0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								UP Off-Dock Yards Total East L.A. Yard	63.3%	834,685 66,352	1,002,405 440,252	1,341,787 676,923		0.0	1.7 0.1	2.2 0.2	1.7 0.1	5.6 0.4	0.0	2.0 0.9	2.5	0.5 0.2	4.9 2.2	0.0	2.3 1.2	4.0	0.5	7.4 3.7	0.0	6.0	8.7 3.3	3.3
								ICTF Yard	51.3%	752,386	7,356	3,900		0.0	1.5	2.0	1.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.0	1.5
								City of Industry Yard	99.7%	185	333,828	359,698	,	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.2	1.6	0.0	0.7	0.9	0.2	1.8	0.0	1.4	1.7	0.4
								LATC Yard Additional UP Yard Capacity Needed	54.1%	15,763	220,968	301,267		0.0	0.0	0.0	0.0		0.0	0.4	0.5	0.1	1.1 0.0	0.0	0.4	1.1 0.0	0.4	1.9 0.0	0.0	0.9	1.7 0.0	0.5 0.0
								Total Additional Yard Capacity Needed		0	0	0	0						***		***		***				-			***	***	
								Total including Additional Yard Capacity Neede		4,954,729				0.0	9.9	13.2	9.9	33.1	0.0	3.8	4.7	0.9	9.4	0.0	4.4	12.0	4.3	20.7	0.0	18.1	29.9	15.2
Baseline	ne 2010	2010 conditions	Yes	No	No	2010 conditions		Total excluding Additional Yard Capacity Needs On-Dock Yards Total	ed	4,954,729 3,312,578	1,917,754	3,195,640	10,068,123 3,312,578	0.0	6.6	8.8	6.6	22.1											0.0	6.6	8.8	6.6
With Pro	roject	with 2035 SCIG					volume at ICTF in	On-Dock Yards BNSF Total		1,866,821			1,866,821		3.7	5.0		12.5											0.0	3.7	5.0	3.7
	e increases in	volumes.**					2010: 3,752 lifts 48+ foot containers	On-Dock Yards UP Total Off-Dock Yards Total		1,445,756	4 047 754	3.195.640	1,445,756		2.9	3.9	2.9	9.6	0.0	2.0	4.7	0.9	9.4	0.0	4.4	12.0	4.2	20.7	0.0	2.9	3.9	2.9
TEUs th	that take place							BNSF Off-Dock Yards Total		3,755,738 2,921,053	915,349	1,853,853	-,,		1.9 0.3	18.8 16.6	1.7 0.0	16.8	0.0	3.8 1.8	4.7 2.3	0.5	4.5	0.0 0.0	4.4 2.1	12.0 8.0	4.3 3.2	20.7 13.3	0.0	4.1	26.8	3.6
entirely and Dock Ya	y at BNSF Off- Yards							Hobart & Commerce Yards	35.1%	146,053	505,585	1,004,236			0.3	0.6	0.0	0.8	0.0	1.0	1.2	0.2	2.5	0.0	1.1	4.4	1.8	7.3	0.0	2.4	6.2	2.0
								San Bernardino Yard SCIG Yard	64.8% 100.0%	2,775,000	409,764	849,617	1,259,381 2,775,000	0.0	0.0	0.0 16.0	0.0	0.0 16.0	0.0	0.8	1.0 0.0	0.2	2.0	0.0	1.0	3.6	1.4	6.0	0.0	1.8	4.6 16.0	1.6
								Additional BNSF Yard Capacity Needed	100.076	0	0	0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								UP Off-Dock Yards Total		834,685	1,002,405	1,341,787			1.7	2.2	1.7	5.6	0.0	2.0	2.5	0.5	4.9	0.0	2.3	4.0	1.1	7.4	0.0	6.0	8.7	3.3
								East L.A. Yard ICTF Yard	63.3% 51.3%	66,352 752,386	440,252 7,356	676,923 3.900		0.0	0.1 1.5	0.2 2.0	0.1 1.5	0.4 5.0	0.0	0.9	1.1 0.0	0.2	2.2 0.0	0.0	1.2 0.0	2.0 0.0	0.5	3.7 0.0	0.0	1.5	3.3	0.9 1.5
								City of Industry Yard	99.7%	185	333,828	359,698			0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.2	1.6	0.0	0.7	0.9	0.2	1.8	0.0	1.4	1.7	0.4
								LATC Yard	54.1%	15,763	220,968	301,267			0.0	0.0	0.0			0.4	0.5	0.1	1.1	0.0	0.4	1.1	0.4	1.9	0.0	0.9	1.7	0.5
								Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed		0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								Total including Additional Yard Capacity Neede Total excluding Additional Yard Capacity Neede		7,068,316 7,068,316		3,195,640 3,195,640		0.0	8.6	27.6	8.3	44.5	0.0	3.8	4.7	0.9	9.4	0.0	4.4	12.0	4.3	20.7	0.0	16.7	44.3	13.5
2016 No	No Project ing equal		No	Yes	as POLA assumed in	Modified Maximum Practical	No No	On-Dock Yards Total On-Dock Yards BNSF Total		5,866,291 2,933,146			5,866,291 2,933,146		11.0 5.5	22.3 11.1	0.0	33.3 16.6											0.0	11.0	22.3 11.1	0.0
	-UP IPI market				deriving at	Capacities at		On-Dock Yards UP Total		2,933,146			2,933,146		5.5	11.1	0.0	16.6											0.0	5.5	11.1	0.0
shares	3				demand for 2016	HOB&COM, ELA, LATC and COI		Off-Dock Yards Total		1,268,463		4,179,682			2.4	4.8	0.0	7.2	6.5	3.2	0.0	0.0	9.6	0.0	6.3	12.8	0.0	19.2	6.5	11.9	17.7	0.0
						Yards		BNSF Off-Dock Yards Total Hobart & Commerce Yards	39.7%	634,231 634,231	1,385,175 969,622	2,089,841 1,462,889		0.0 0.0	1.2 1.2	2.4 2.4	0.0	3.6 3.6	3.2 2.3	1.6 1.1	0.0	0.0 0.0	4.8 3.4	0.0 0.0	3.2	6.4 4.5	0.0	9.6	3.2	5.9	8.8	0.0
								San Bernardino Yard	51.9%	0	415,552	626,952			0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0	1.4	0.0	0.9	1.9	0.0	2.9	1.0	1.4	1.9	0.0
								SCIG Yard	N/A	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								Additional BNSF Yard Capacity Needed UP Off-Dock Yards Total		634,231	1,385,175	2,089,841	4,109,247	0.0 0.0	0.0	0.0 2.4	0.0	0.0 3.6	0.0 3.2	0.0	0.0	0.0	0.0 4.8	0.0	0.0 3.2	0.0 6.4	0.0	0.0	0.0	0.0 5.9	0.0 8.8	0.0
1 /								East L.A. Yard	37.9%	31,712	692,587	1,044,920			0.1	0.1	0.0	0.2	1.6	0.8	0.0	0.0	2.4	0.0	1.6	3.2	0.0	4.8	1.6	2.4	3.3	0.0
								ICTF Yard	21.7%	602,520	0	0	602,520	0.0	1.1	2.3	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	0.0
								City of Industry Yard LATC Yard	98.5% 50.8%	0	138,517 554,070	208,984 835,936	,		0.0	0.0	0.0		0.3 1.3	0.2	0.0	0.0	0.5 1.9	0.0	0.3 1.3	0.6 2.6	0.0	1.0 3.8	0.3 1.3	0.5 1.9	0.6 2.6	0.0
								Additional UP Yard Capacity Needed	30.070	0	0	0		0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0
								Total Additional Yard Capacity Needed		0	0	0	0			07.4		40.5								40.0		40.0				
								Total including Additional Yard Capacity Needs	a	7,134,754			14,084,785	0.0	13.4	27.1	0.0	40.5	6.5	3.2	0.0	0.0	9.6	0.0	6.3	12.8	0.0	19.2	6.5	22.9	39.9	0.0
								Total excluding Additional Yard Capacity Needs	ed	7,134,754	2,770,349	4,179,682	14,084,785			22.3	0.0												0.0	11.0	22.3	0.0
	•	2016 Cumulative	Yes	Yes	as POLA	Modified Maximum		Total excluding Additional Yard Capacity Needs On-Dock Yards Total	ed	5,866,291	2,770,349	4,179,682	5,866,291																			
assumin	With Project ing equal -UP IPI market	2016 Cumulative	Yes	Yes	assumed in deriving at	Practical Capacities at		Total excluding Additional Yard Capacity Needs On-Dock Yards Total On-Dock Yards BNSF Total	ed	5,866,291 2,933,146	2,770,349	4,179,682	5,866,291 2,933,146	0.0	5.5	11.1		16.6 16.6											0.0	5.5	11.1 11.1	0.0
assumin	ing equal -UP IPI market	2016 Cumulative	Yes	Yes	assumed in deriving at	Practical Capacities at HOB&COM, ELA,	n No	Total excluding Additional Yard Capacity Needs On-Dock Yards Total	ed	5,866,291			5,866,291 2,933,146 2,933,146	0.0 0.0	5.5	11.1	0.0	16.6	6.5	3.2	0.0	0.0	9.6	0.0	6.3	12.8	0.0	19.2	0.0 0.0 6.5		11.1 11.1 19.1	0.0
assumin BNSF-U	ing equal -UP IPI market	2016 Cumulative	Yes	Yes	assumed in deriving at	Practical Capacities at	n No	Total excluding Additional Yard Capacity Needs On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total		5,866,291 2,933,146 2,933,146 1,268,463 634,231	2,770,349 1,385,175	4,179,682 2,089,841	5,866,291 2,933,146 2,933,146 8,218,494 4,109,247	0.0 0.0 0.0 0.0	5.5 5.5 1.2 0.1	11.1 11.1 6.2 3.8	0.0 0.0 0.0	7.5 3.9	3.2	1.6	0.0	0.0	4.8	0.0	3.2	6.4	0.0	19.2 9.6	0.0 6.5 3.2	5.5 5.5 10.8 4.8	11.1 19.1 10.2	0.0
assumin BNSF-U	ing equal -UP IPI market	2016 Cumulative	Yes	Yes	assumed in deriving at	Practical Capacities at HOB&COM, ELA, LATC and COI	n No	Total excluding Additional Yard Capacity Needs On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards UT Total	28.4%	5,866,291 2,933,146 2,933,146 1,268,463	2,770,349 1,385,175 969,622	4,179,682	5,866,291 2,933,146 2,933,146 8,218,494 4,109,247 2,464,222	0.0 0.0 0.0 0.0 0.0	5.5 5.5 1.2	11.1 11.1 6.2	0.0	7.5 3.9											0.0 6.5	5.5 5.5 10.8		0.0
assumin BNSF-U	ing equal -UP IPI market	2016 Cumulative	Yes	Yes	assumed in deriving at	Practical Capacities at HOB&COM, ELA, LATC and COI	n No	Total excluding Additional Yard Capacity Needs On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard		5,866,291 2,933,146 2,933,146 1,268,463 634,231 31,712	2,770,349 1,385,175	4,179,682 2,089,841 1,462,889	5,866,291 2,933,146 2,933,146 8,218,494 4,109,247 2,464,222 1,042,505 602,520	0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.5 5.5 1.2 0.1 0.1 0.0 0.0	11.1 11.1 6.2 3.8 0.1 0.0 3.7	0.0 0.0 0.0 0.0 0.0 0.0	7.5 3.9 0.2 0.0 3.7	2.3 1.0 0.0	1.6 1.1 0.5 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	4.8 3.4 1.4 0.0	0.0 0.0 0.0 0.0	3.2 2.2 0.9 0.0	6.4 4.5 1.9 0.0	0.0 0.0	9.6 6.7	0.0 6.5 3.2	5.5 5.5 10.8 4.8	11.1 19.1 10.2	0.0
assumin BNSF-U	ing equal -UP IPI market	2016 Cumulative	Yes	Yes	assumed in deriving at	Practical Capacities at HOB&COM, ELA, LATC and COI	n No	Total excluding Additional Yard Capacity Needo On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	28.4% 51.9%	5,866,291 2,933,146 2,933,146 1,268,463 634,231 31,712 0 602,520	2,770,349 1,385,175 969,622 415,552 0	4,179,682 2,089,841 1,462,889 626,952 0	5,866,291 2,933,146 2,933,146 8,218,494 4,109,247 2,464,222 1,042,505 602,520 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.5 5.5 1.2 0.1 0.1 0.0 0.0 0.0	11.1 11.1 6.2 3.8 0.1 0.0 3.7 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.5 3.9 0.2 0.0 3.7 0.0	3.2 2.3 1.0 0.0 0.0	1.6 1.1 0.5 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	4.8 3.4 1.4 0.0 0.0	0.0 0.0 0.0 0.0 0.0	3.2 2.2 0.9 0.0 0.0	6.4 4.5 1.9	0.0 0.0	9.6 6.7	0.0 6.5 3.2	5.5 5.5 10.8 4.8	11.1 19.1 10.2	0.0
assumin BNSF-U	ing equal -UP IPI market	2016 Cumulative	Yes	Yes	assumed in deriving at	Practical Capacities at HOB&COM, ELA, LATC and COI	n No	Total excluding Additional Yard Capacity Needs On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard	28.4% 51.9% 21.7%	5,866,291 2,933,146 2,933,146 1,268,463 634,231 31,712 0	2,770,349 1,385,175 969,622 415,552	4,179,682 2,089,841 1,462,889 626,952 0	5,866,291 2,933,146 2,933,146 8,218,494 4,109,247 2,464,222 1,042,505 602,520 0 4,109,247	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.5 5.5 1.2 0.1 0.1 0.0 0.0	11.1 11.1 6.2 3.8 0.1 0.0 3.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.5 3.9 0.2 0.0 3.7 0.0	2.3 1.0 0.0	1.6 1.1 0.5 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	4.8 3.4 1.4 0.0	0.0 0.0 0.0 0.0	3.2 2.2 0.9 0.0	6.4 4.5 1.9 0.0	0.0 0.0	9.6 6.7	0.0 6.5 3.2	5.5 5.5 10.8 4.8	11.1 19.1 10.2	0.0
assumin BNSF-U	ing equal -UP IPI market	2016 Cumulative	Yes	Yes	assumed in deriving at	Practical Capacities at HOB&COM, ELA, LATC and COI	n No	Total excluding Additional Yard Capacity Needo On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed UP Off-Dock Yards Total East L.A. Yard ICTF Yard	28.4% 51.9% 21.7% 37.9% 21.7%	5,866,291 2,933,146 2,933,146 1,268,463 634,231 0 602,520 0 634,231 31,712 602,520	2,770,349 1,385,175 969,622 415,552 0 0 1,385,175 692,587	4,179,682 2,089,841 1,462,889 626,952 0 0 2,089,841 1,044,920	5,866,291 2,933,146 2,933,146 8,218,494 4,109,247 2,464,222 1,042,505 602,520 0 4,109,247 1,769,219 602,520	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.5 5.5 1.2 0.1 0.0 0.0 0.0 0.0 1.2 0.1 1.1	11.1 11.1 6.2 3.8 0.1 0.0 3.7 0.0 2.4 0.1 2.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16.6 7.5 3.9 0.2 0.0 3.7 0.0 3.6 0.2 3.4	3.2 2.3 1.0 0.0 0.0 3.2 1.6 0.0	1.6 1.1 0.5 0.0 0.0 1.6 0.8 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.8 3.4 1.4 0.0 0.0 4.8 2.4 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.2 2.2 0.9 0.0 0.0 3.2 1.6 0.0	6.4 4.5 1.9 0.0 0.0 6.4 3.2 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.6 6.7 2.9 0.0 0.0 9.6 4.8 0.0	0.0 6.5 3.2 2.3 1.0 0.0 0.0 3.2 1.6 0.0	5.5 5.5 10.8 4.8	11.1 19.1 10.2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
assumin BNSF-U	ing equal -UP IPI market	2016 Cumulative	Yes	Yes	assumed in deriving at	Practical Capacities at HOB&COM, ELA, LATC and COI	n No	Total excluding Additional Yard Capacity Needo On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed UP Off-Dock Yards Total East L.A. Yard ICITF Yard City of Industry Yard	28.4% 51.9% 21.7% 37.9% 21.7% 98.5%	5,866,291 2,933,146 2,933,146 1,268,463 634,231 31,712 0 602,520 0 634,231 31,712 602,520 0	2,770,349 1,385,175 969,622 415,552 0 0 1,385,175 692,587 0 138,517	4,179,682 2,089,841 1,462,889 626,952 0 2,089,841 1,044,920 0 208,984	5,866,291 2,933,146 2,933,146 8,218,494 4,109,247 2,464,222 1,042,505 602,520 0 4,109,247 1,769,219 602,520 347,502	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.5 5.5 1.2 0.1 0.0 0.0 0.0 1.2 0.1 1.1 0.0	11.1 11.1 6.2 3.8 0.1 0.0 3.7 0.0 2.4 0.1 2.3 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16.6 7.5 3.9 0.2 0.0 3.7 0.0 3.6 0.2 3.4 0.0	3.2 2.3 1.0 0.0 0.0 3.2 1.6 0.0 0.3	1.6 1.1 0.5 0.0 0.0 1.6 0.8 0.0 0.2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.8 3.4 1.4 0.0 0.0 4.8 2.4 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.2 2.2 0.9 0.0 0.0 3.2 1.6 0.0 0.3	6.4 4.5 1.9 0.0 0.0 6.4 3.2 0.0 0.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.6 6.7 2.9 0.0 0.0 9.6 4.8 0.0 1.0	0.0 6.5 3.2 2.3 1.0 0.0 0.0 3.2 1.6 0.0 0.3	5.5 5.5 10.8 4.8	11.1 19.1 10.2 4.6 1.9 3.7 0.0 8.8 3.3 2.3 0.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
assumin BNSF-U	ing equal -UP IPI market	2016 Cumulative	Yes	Yes	assumed in deriving at	Practical Capacities at HOB&COM, ELA, LATC and COI	n No	Total excluding Additional Yard Capacity Needo On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed UP Off-Dock Yards Total East L.A. Yard ICTF Yard	28.4% 51.9% 21.7% 37.9% 21.7%	5,866,291 2,933,146 2,933,146 1,268,463 634,231 0 602,520 0 634,231 31,712 602,520	2,770,349 1,385,175 969,622 415,552 0 0 1,385,175 692,587	4,179,682 2,089,841 1,462,889 626,952 0 0 2,089,841 1,044,920	5,866,291 2,933,146 8,218,494 4,109,247 2,464,222 1,042,505 602,520 0 4,109,247 1,769,219 602,520 347,502 1,390,006	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.5 5.5 1.2 0.1 0.0 0.0 0.0 0.0 1.2 0.1 1.1	11.1 11.1 6.2 3.8 0.1 0.0 3.7 0.0 2.4 0.1 2.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16.6 7.5 3.9 0.2 0.0 3.7 0.0 3.6 0.2 3.4 0.0 0.0	3.2 2.3 1.0 0.0 0.0 3.2 1.6 0.0 0.3 1.3	1.6 1.1 0.5 0.0 0.0 1.6 0.8 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.8 3.4 1.4 0.0 0.0 4.8 2.4 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.2 2.2 0.9 0.0 0.0 3.2 1.6 0.0	6.4 4.5 1.9 0.0 0.0 6.4 3.2 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.6 6.7 2.9 0.0 0.0 9.6 4.8 0.0 1.0 3.8	0.0 6.5 3.2 2.3 1.0 0.0 0.0 3.2 1.6 0.0	5.5 5.5 10.8 4.8	11.1 19.1 10.2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
assumin BNSF-U	ing equal -UP IPI market	2016 Cumulative	Yes	Yes	assumed in deriving at	Practical Capacities at HOB&COM, ELA, LATC and COI	n No	Total excluding Additional Yard Capacity Needo On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed UP Off-Dock Yards Total East L.A. Yard ICTF Yard City of Industry Yard LATC Yard	28.4% 51.9% 21.7% 37.9% 21.7% 98.5% 50.8%	5,866,291 2,933,146 2,933,146 1,268,463 634,231 31,712 0 602,520 0 634,231 31,712 602,520 0 0	2,770,349 1,385,175 969,622 415,552 0 0 1,385,175 692,587 0 138,517 554,070 0	4,179,682 2,089,841 1,462,889 626,952 0 0 2,089,841 1,044,920 0 208,984 835,936 0	5,866,291 2,933,146 8,218,494 4,109,247 2,464,222 1,042,505 602,520 0 4,109,247 1,769,219 602,520 347,502 1,390,006	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.5 5.5 1.2 0.1 0.0 0.0 0.0 1.2 0.1 1.1 0.0 0.0	11.1 11.1 6.2 3.8 0.1 0.0 3.7 0.0 2.4 0.1 2.3 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.5 3.9 0.2 0.0 3.7 0.0 3.6 0.2 3.4 0.0 0.0	3.2 2.3 1.0 0.0 0.0 3.2 1.6 0.0 0.3 1.3	1.6 1.1 0.5 0.0 0.0 1.6 0.8 0.0 0.2 0.6 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.8 3.4 1.4 0.0 0.0 4.8 2.4 0.0 0.5 1.9	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.2 2.2 0.9 0.0 0.0 3.2 1.6 0.0 0.3 1.3 0.0	6.4 4.5 1.9 0.0 0.0 6.4 3.2 0.0 0.6 2.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.6 6.7 2.9 0.0 0.0 9.6 4.8 0.0 1.0 3.8 0.0	0.0 6.5 3.2 2.3 1.0 0.0 0.0 3.2 1.6 0.0 0.3 1.3	5.5 5.5 10.8 4.8 3.4 1.4 0.0 0.0 5.9 2.4 1.1 0.5 1.9 0.0	11.1 19.1 10.2 4.6 1.9 3.7 0.0 8.8 3.3 2.3 0.6 2.6 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

No.	Title	Description	SCIG	ICTF	Other rail	Off-dock rail	Transload	Yard	% Lifts	IPI L+E	TL L TEUs	Dom ! ±E	Total TEUs	121	IPI L+	E IM Tra	ains 6K	Total	121	10K	L IM Tra 8K		Total	1214	Dom L 10K	+E IM Tra	ains 6K To	otal 40	2K 4		IM Train 8K	ns 6K To
NO.	Title	Description	included	IMPS included ?	projects (e.g.,	capacity	permitted at SCIG and ICTF? (Domestic not permitted at ICTF and SCIG)	Yard	% Lifts Capacity Utilization	TEUs	ILL IEUS	TEUs	Total LEUS	12 K	10K	8K	br.	Iotai	12K	10K	ð r .	bK	Iotai	12K	10K	81	br. 10	otal 12	2K 1	IUK	8K	br. 10
	ing equal		No	Yes	Yes	Modified Maximum Practical		On-Dock Yards Total On-Dock Yards BNSF Total		8,276,066 4,138,033			8,276,066 4,138,033	0.0	7.7	15.7	0.0	46.9 23.5										0	0.0 7			0.0 4 0.0 2
BNSF-U shares	UP IPI market					Capacities at HOB&COM, ELA,		On-Dock Yards UP Total Off-Dock Yards Total		4,138,033 1,794,661		5,560,661	4,138,033 11,287,728		7.7 3.4	15.7 6.8	0.0	23.5 10.2	9.2	4.5	0.0	0.0	13.7	0.0	8.4	17.1	0.0 2	_	0.0 7 0.2 10		15.7 23.9	0.0 2
						LATC and COI Yards		BNSF Off-Dock Yards Total Hobart & Commerce Yards	54.50/	897,330 897,330	1,966,203	2,780,331 1,946,231	5,643,864	0.0 0.0	1.7 1.7	3.4 3.4	0.0	5.1 5.1	4.6 3.2	2.3 1.6	0.0	0.0	6.8	0.0	4.2	8.5	0.0	2.7 4	1.6 8	8.1	11.9	0.0 2
								San Bernardino Yard	54.5% 70.3%	097,330	589,861	834,099		0.0	0.0	0.0	0.0	0.0	1.4	0.7	0.0	0.0	2.1	0.0	1.3	2.6	0.0	3.8 1	1.4 1	1.9	2.6	0.0
								SCIG Yard Additional BNSF Yard Capacity Needed	N/A	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0	0.0 0.0	0.0 0 0.0 0	0.0 0.0	0.0	0.0
								UP Off-Dock Yards Total East L.A. Yard	57.6%	897,330 44,867	1,966,203 983,101	2,780,331 1,390,165		0.0	1.7 0.1	3.4 0.2	0.0	5.1 0.3	4.6 2.3	2.3 1.1	0.0	0.0 0.0	6.8 3.4	0.0	4.2 2.1	8.5 4.3	0.0 12	2.7 4	1.6 8 2.3 3	8.1 3.3	11.9	0.0 2
								ICTF Yard	30.7%	852,464	0	0	852,464	0.0	1.6	3.2	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	1.6	3.2	0.0
								City of Industry Yard LATC Yard	100.0% 68.7%	0	196,620 786,481	278,033 1,112,132	,	0.0	0.0	0.0	0.0	0.0	0.5 1.8	0.2 0.9	0.0	0.0	0.7 2.7	0.0	0.4 1.7	0.9 3.4	0.0 1 0.0 5	5.1 1.	0.5 0 1.8 2	0.6 2.6	3.4	0.0 2
								Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed		0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0	0.0	0.0	0.0
								Total including Additional Yard Capacity Needs Total excluding Additional Yard Capacity Need		10,070,726 10,070,726			19,563,793 19,563,793	0.0	18.8	38.3	0.0	57.1	9.2	4.5	0.0	0.0	13.7	0.0	8.4	17.1	0.0 2	5.5 9	9.2 3	1.8	55.3	0.0 9
		2023 Cumulative	Yes	Yes	Yes	Modified Maximum	No	On-Dock Yards Total	su	8,276,066		5,560,661	8,276,066		15.5			46.9													•	0.0 4
BNSF-U	ing equal UP IPI market					Practical Capacities at		On-Dock Yards BNSF Total On-Dock Yards UP Total		4,138,033 4,138,033			4,138,033 4,138,033		7.7 7.7	15.7 15.7	0.0	23.5 23.5										-				0.0 2 0.0 2
shares						HOB&COM, ELA, LATC and COI Yards		Off-Dock Yards Total BNSF Off-Dock Yards Total		1,794,661 897,330		5,560,661 2,780,331		0.0	1.8 0.1	8.8 5.4	0.0	10.6 5.5	9.2 4.6	4.5 2.3	0.0	0.0 0.0	13.7 6.8	0.0	8.4 4.2	17.1 8.5		5.5 9 2.7 4	9.2 14 1.6 6	4.7 2 6.5	25.9 14.0	0.0 4 0.0 2
						Taius		Hobart & Commerce Yards San Bernardino Yard	38.5% 70.3%	44,867	1,376,342 589,861	1,946,231 834,099		0.0	0.1	0.2	0.0	0.3	3.2	1.6 0.7	0.0	0.0	4.8	0.0	2.9	6.0	0.0	3.9 3 8.8 1	3.2 4	4.6 1.9	6.1	0.0 1
								SCIG Yard	30.7%	852,464		0	852,464	0.0	0.0	5.2	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0	0.0	0.0	5.2	0.0
								Additional BNSF Yard Capacity Needed UP Off-Dock Yards Total		897,330	1,966,203	2,780,331	5,643,864	0.0 0.0	0.0 1.7	0.0 3.4	0.0 0.0	0.0 5.1	0.0 4.6	0.0 2.3	0.0 0.0	0.0 0.0	0.0 6.8	0.0	4.2	8.5	0.0 0	0.0 0 2.7 4	0.0 0 4.6 8	0.0 8.1	0.0 11.9	0.0 0
								East L.A. Yard ICTF Yard	57.6% 30.7%	44,867 852,464	983,101	1,390,165 0	2,418,133 852,464	0.0	0.1 1.6	0.2 3.2	0.0	0.3 4.8	2.3 0.0	1.1 0.0	0.0	0.0	3.4 0.0	0.0	2.1 0.0	4.3 0.0	0.0 6	5.4 2 0.0 0	2.3 3 0.0 1	3.3 1.6	4.4 3.2	0.0 1 0.0
								City of Industry Yard LATC Yard	100.0%	0	196,620 786,481	278,033 1,112,132	474,653	0.0	0.0	0.0	0.0	0.0	0.5 1.8	0.2	0.0	0.0	0.7 2.7	0.0	0.4 1.7	0.9 3.4	0.0 1	1.3 0	0.5	0.6	0.9	0.0 2
								Additional UP Yard Capacity Needed	68.7%	0	0	0		0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0			0.0 0	0.0	0.0		0.0
								Total Additional Yard Capacity Needed Total including Additional Yard Capacity Neede Total excluding Additional Yard Capacity Need		10,070,726 10,070,726		5,560,661 5,560,661	19,563,793						9.2	4.5	0.0	0.0	13.7	0.0	8.4	17.1	0.0 2					0.0 9
assumi	lo Project ning equal UP IPI market		No	Yes	Yes	Modified Maximum Practical Capacities at		On-Dock Yards Total On-Dock Yards BNSF Total		11,683,706 5,841,853			11,683,706 5,841,853	0.0	10.9	22.2	0.0	66.3 33.1										0		0.9	22.2	0.0 6 0.0 3
shares						HOB&COM, ELA, LATC and COI		On-Dock Yards UP Total Off-Dock Yards Total		5,841,853 4,059,494	6,162,460	8,242,338		0.0	10.9 7.6	22.2 15.4	0.0	33.1 23.0	14.4	7.1	0.0	0.0	21.5	0.0		25.3	0.0 3	7.8 14	4.4 2	7.1	40.7	0.0 3 0.0 8
						Yards		BNSF Off-Dock Yards Total Hobart & Commerce Yards	96.1%	2,029,747 2,029,747	3,081,230 2,156,861	4,121,169 3,065,538			3.8 3.8	7.7 7.7	0.0	11.5 11.5	7.2 5.0	3.5 2.5	0.0 0.0	0.0 0.0	10.7 7.5	0.0 0.0	6.2 4.6	12.7 9.4	0.0 1	8.9 7 4.0 5	7.2 1: 5.0 1:	3.6 2 0.9	20.4 17.1	0.0 4 0.0 3
								San Bernardino Yard SCIG Yard	100.0% N/A	0	924,369	1,055,631 0	1,980,000 0	0.0	0.0	0.0	0.0	0.0	2.2 0.0	1.1 0.0	0.0	0.0	3.2 0.0	0.0	1.6 0.0	3.2 0.0	0.0 4 0.0 0	1.8 2 0.0 0	2.2 2 0.0 0	2.7 0.0	3.2 0.0	0.0
								Additional BNSF Yard Capacity Needed UP Off-Dock Yards Total		0 2,029,747	3,081,230	0 4,121,169	9.232.146	0.0 0.0	0.0 3.8	0.0 7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0	0.0 0	0.0	0.0	0.0
								East L.A. Yard	100.0%	101,487	1,540,615	2,044,811	3,686,913	0.0	0.2	0.4	0.0	0.6	3.6	1.8	0.0	0.0	5.4	0.0	3.1	6.3	0.0 9	0.4 3	3.6 5	5.1	6.7	0.0 1
								ICTF Yard City of Industry Yard	69.5% 100.0%	1,928,260 0	308,123	0 608,850	1,928,260 916,973	0.0	3.6 0.0	7.3 0.0	0.0	10.9 0.0	0.0 0.7	0.0 0.4	0.0	0.0	0.0 1.1	0.0	0.0	0.0 1.9	0.0 0 0.0 2	0.0 0. 2.8 0.	0.0 3 0.7 1	3.6 1.3	7.3 1.9	0.0 1 0.0 3
								LATC Yard Additional UP Yard Capacity Needed	100.0%	0	1,232,492	1,467,508 0		0.0	0.0	0.0	0.0	0.0	2.9 0.0	1.4 0.0	0.0	0.0	4.3 0.0	0.0	2.2 0.0	4.5 0.0	0.0 6		2.9 3 0.0 0			0.0 1
								Total Additional Yard Capacity Needed		0 45 742 200	0	0 242 228	0		29.5								21.5				0.0 3					0.0 14
2035 W	No. 5	2005 0 1 1				A4 100 1A4 1		Total including Additional Yard Capacity Neede Total excluding Additional Yard Capacity Need		15,743,200	6,162,460 6,162,460		30,147,998						14.4	7.1	0.0	0.0	21.5	0.0	12.5	25.3	0.0 3					
assumin	ing projected	2035 Cumulative	Yes	Yes	Yes	Modified Maximum Practical		On-Dock Yards Total On-Dock Yards BNSF Total		11,683,706 5,841,853			11,683,706 5,841,853	0.0	10.9	22.2	0.0	66.3 33.1												0.9	22.2	0.0 6 0.0 3
and equ	nand for SCIG ual BNSF-UP					Capacities at HOB&COM, ELA,		On-Dock Yards UP Total Off-Dock Yards Total		5,841,853 4,059,494		8,242,338	5,841,853 18,464,292		10.9 4.0	22.2		33.1 24.0	14.4	7.1	0.0	0.0	21.5	0.0	12.5	25.3	0.0 3	_			22.2 45.3	0.0 8
IPI mark	rket shares					LATC and COI Yards		BNSF Off-Dock Yards Total Hobart & Commerce Yards	59.9%	2,029,747 101,487	3,081,230	4,121,169 3,065,538	9,232,146	0.0	0.2 0.2	12.3 0.4	0.0	12.4	7.2 5.0	3.5 2.5	0.0	0.0 0.0	10.7 7.5	0.0	6.2 4.6	12.7 9.4	0.0 18			0.0		0.0 4 0.0 2
								San Bernardino Yard	100.0%	0	924,369	1,055,631	1,980,000	0.0	0.0	0.0	0.0	0.0	2.2	1.1	0.0	0.0	3.2	0.0	1.6	3.2			2.2 2	2.7	3.2	0.0
								SCIG Yard Additional BNSF Yard Capacity Needed	69.5%	1,928,260 0	0	0		0.0	0.0	11.9 0.0	0.0	11.9 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0	0.0 0	0.0	0.0	0.0 1
								UP Off-Dock Yards Total		2,029,747		4,121,169			3.8 0.2	7.7 0.4	0.0	11.5 0.6	7.2 3.6	3.5	0.0	0.0	10.7	0.0	6.2	12.7	0.0 18	8.9 7	7.2 1	3.6		0.0 4
								East L.A. Yard	100.0%	101,487	1,540,615	2,044,811	3,686,913	0.0	0.2		0.0	0.0	3.0	1.8	0.0	0.0	5.4	0.0	3.1	6.3	0.0	.4 3	3.6 5	5.1	6.7	0.0 1
								ICTF Yard	100.0% 69.5%	1,928,260	0	0	1,928,260	0.0	3.6	7.3	0.0	10.9	0.0	0.0	0.0	0.0	5.4 0.0	0.0	0.0	0.0	0.0 9	0.0 0.0	3.6 5 0.0 3	5.1 3.6	•	0.0 1
								ICTF Yard City of Industry Yard LATC Yard				2,044,811 0 608,850 1,467,508	1,928,260 916,973 2,700,000	0.0 0.0 0.0	3.6 0.0 0.0	7.3 0.0 0.0	0.0 0.0 0.0	10.9 0.0 0.0	0.0 0.7 2.9	0.0 0.4 1.4	0.0 0.0 0.0	0.0 0.0 0.0	1.1 4.3	0.0 0.0 0.0	0.0 0.9 2.2	0.0 1.9 4.5	0.0 2 0.0 6			3.6 1.3 3.6	7.3 1.9 4.5	0.0 1 0.0 3 0.0 1
								ICTF Yard City of Industry Yard	69.5% 100.0%	1,928,260	0 308,123	0 608,850	1,928,260 916,973 2,700,000	0.0	3.6 0.0	7.3 0.0	0.0	10.9 0.0	0.0 0.7	0.0 0.4	0.0	0.0	1.1	0.0	0.0	0.0 1.9 4.5	0.0 2 0.0 6	5.7 2		3.6 1.3 3.6	7.3 1.9 4.5	0.0 1 0.0 3

0.	Title	Description	8010	ICTF	Other rail	Off-dock rail	Transload	Yard	% Lifts	IPI L+E	TL L TEUs	Dom ! IF	Total TEUs	121/		E IM Tra 8K		Total	12K 1	TLLIN			Total	121/		.+E IM T		Total	12K		II IM Tra 8K	ins 6K
			SCIG included ?	IMPS included ?	projects (e.g., APL, Pier B, Pier S) included?	capacity assumptions ***	permitted at SCIG and ICTF? (Domestic not permitted at ICTF and SCIG)		% Lifts Capacity Utilization	TEUs	IL L IEUS	TEUs	Total TEUS	12K	10K	ðK.			12K 1	JK 8	ik	bN.	Iotai	12K	10K	814	ьк	Total		10K	814	ьк
	35 With Project suming maximum	2035 Cumulative	Yes	Yes	Yes	Modified Maximum Practical		On-Dock Yards Total On-Dock Yards BNSF Total		11,683,706 5,841,853			11,683,706 5,841,853					66.3 33.1											0.0 0.0	21.9 10.9	44.4 22.2	0.0
der	mand equal to					Capacities at HOB&COM, ELA,		On-Dock Yards UP Total		5,841,853			5,841,853			22.2		33.1											0.0	10.9	22.2	0.0
	pacity of SCIG ring BNSF higher					LATC and COI		Off-Dock Yards Total		4,059,494		8,242,338				20.9 16.6	0.0	23.3 16.8				0.0 0.0	21.5	0.0	12.5	25.3 12.7	0.0	37.8 18.9	14.4	22.0 10.0	46.2 29.2	0.0
	market share					Yards		BNSF Off-Dock Yards Total Hobart & Commerce Yards	60.7%	2,921,053 146,053	3,081,230 2,156,861	4,121,169 3,065,538	5,368,452	0.0	0.3 0.3	0.6	0.0	0.8				0.0	7.5	0.0	4.6	9.4	0.0	14.0	5.0	7.4	10.0	0.0
								San Bernardino Yard	100.0%	0	924,369	1,055,631		0.0	0.0	0.0	0.0	0.0				0.0	3.2	0.0	1.6	3.2	0.0	4.8	2.2	2.7	3.2	0.0
								SCIG Yard Additional BNSF Yard Capacity Needed	100.0%	2,775,000	0	0	2,775,000 0	0.0	0.0	0.0	0.0	16.0 0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0 0.0	0.0
								UP Off-Dock Yards Total		1,138,441	3,081,230	4,121,169		0.0	2.1	4.3	0.0	6.5	7.2			0.0	10.7	0.0	6.2	12.7	0.0	18.9	7.2	11.9	17.0	0.0
								East L.A. Yard ICTF Yard	98.2% 39.0%	56,922 1,081,519	1,540,615	2,117,079	3,714,616 1.081.519	0.0	0.1 2.0	0.2 4.1	0.0	0.3 6.1				0.0	5.4 0.0	0.0	3.2 0.0	6.5 0.0	0.0	9.7	3.6	5.1	6.7 4.1	0.0
								City of Industry Yard	100.0%	0	308,123	536,582	, ,	0.0	0.0	0.0	0.0					0.0	1.1	0.0	0.8	1.6	0.0	2.5	0.7	1.2	1.6	0.0
								LATC Yard	100.0%	0	1,232,492	1,467,508	2,700,000	0.0	0.0	0.0						0.0	4.3	0.0	2.2	4.5	0.0	6.7	2.9	3.6	4.5	0.0
								Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed		0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	.0 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								Total including Additional Yard Capacity Needs		15,743,200	6,162,460	8,242,338		0.0	24.3	65.3	0.0	89.5	14.4	.1 0	.0	0.0	21.5	0.0	12.5	25.3	0.0	37.8	14.4	43.8	90.6	0.0
20	46 No Project		No	Yes	Yes	Modified Maximum		Total excluding Additional Yard Capacity Need On-Dock Yards Total	ed	15,743,200 11,683,706	6,162,460	8,242,338	30,147,998 11,683,706	0.0	21.9	44.4	0.0	66.3											0.0	21.9	44 4	0.0
ass	suming equal					Practical		On-Dock Yards BNSF Total		5,841,853			5,841,853					33.1											0.0	10.9	22.2	0.0
	SF-UP IPI market					Capacities at HOB&COM, ELA,		On-Dock Yards UP Total Off-Dock Yards Total		5,841,853	6,162,460	8,729,369	5,841,853 18.951.323	0.0	10.9 7.6	22.2 15.4		33.1 23.0	14.4	4 0	.0	0.0	21.5	0.0	13.2	26.8	0.0	40.0	0.0	10.9	22.2	0.0
						LATC and COI Yards		BNSF Off-Dock Yards Total		4,059,494 2,029,747	3,081,230	4,364,684		0.0	3.8	7.7						0.0	10.7	0.0	6.6	13.4	0.0	20.0	7.2	27.9 13.9	21.1	0.0
						Taras		Hobart & Commerce Yards	99.5%	2,029,747	2,156,861	3,309,053		0.0	3.8	7.7	0.0	11.5				0.0	7.5	0.0	5.0	10.2	0.0	15.2	5.0	11.3	17.9	0.0
								San Bernardino Yard SCIG Yard	100.0% N/A	0	924,369	1,055,631 0	1,980,000 0	0.0	0.0	0.0	0.0	0.0				0.0	3.2 0.0	0.0	1.6 0.0	3.2 0.0	0.0	4.8 0.0	0.0	0.0	0.0	0.0
								Additional BNSF Yard Capacity Needed	14//	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	.0 0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								UP Off-Dock Yards Total East L.A. Yard	400.00/	2,029,747 101,487	3,081,230 1,540,615	4,364,684 2,044,811	9,475,661 3,686,913	0.0	3.8 0.2	7.7 0.4	0.0	11.5 0.6		. 5 (). 0).0	0.0	10.7	0.0	6.6 3.1	13.4 6.3	0.0	20.0	7.2	13.9	21.1	0.0
								ICTF Yard	100.0% 69.5%	1,928,260	1,540,015	2,044,011	1,928,260	0.0	3.6	7.3	0.0	10.9				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	0.0
								City of Industry Yard	100.0%	0	308,123	852,366		0.0	0.0	0.0	0.0					0.0	1.1	0.0	1.3	2.6	0.0	3.9	0.7	1.6	2.6	0.0
								LATC Yard Additional UP Yard Capacity Needed	100.0%	0	1,232,492	1,467,508 0		0.0	0.0	0.0	0.0					0.0	4.3 0.0	0.0	0.0	4.5 0.0	0.0	6.7 0.0	2.9 0.0	3.6 0.0	4.5 0.0	0.0
								Total Additional Yard Capacity Needed Total including Additional Yard Capacity Neede	ed	15,743,200	0 6,162,460	0 8,729,369	0 30,635,029	0.0	29.5	59.8	0.0	89.3	14.4	.1 0	0.0	0.0	21.5	0.0	13.2	26.8	0.0	40.0	14.4	49.7	86.6	0.0
20	46 With Project	2046 Cumulative	Van	Yes	Yes	Modified Maximum		Total excluding Additional Yard Capacity Need		15,743,200	6,162,460	8,729,369	30,635,029		04.0		2.0	20.0												24.0		
	suming projected	2046 Cumulative	Yes	res	res	Practical		On-Dock Yards Total On-Dock Yards BNSF Total		11,683,706 5,841,853			11,683,706 5,841,853			44.4 22.2		66.3 33.1											0.0 0.0	21.9 10.9	44.4 22.2	0.0
	demand for SCIG					Capacities at HOB&COM, ELA.		On-Dock Yards UP Total		5,841,853			5,841,853			22.2		33.1											0.0	10.9	22.2	0.0
	market shares					LATC and COI		Off-Dock Yards Total BNSF Off-Dock Yards Total		4,059,494 2,029,747	6,162,460 3,081,230	8,729,369 4,364,684		0.0 0.0	4.0 0.2	20.0 12.3						0.0 0.0	21.5 10.7	0.0	13.2	26.8	0.0	40.0 20.0	14.4	24.3	46.8 25.7	0.0
						Yards		Hobart & Commerce Yards	63.3%	101,487	2,156,861	3,309,053		0.0	0.2	0.4	0.0	0.6				0.0	7.5	0.0	5.0	10.2	0.0	15.2	5.0	7.7	10.5	0.0
								San Bernardino Yard	100.0%	1 020 200	924,369	1,055,631	1,980,000 1,928,260	0.0	0.0	0.0 11.9	0.0	0.0 11.9			0.0	0.0	3.2	0.0	1.6	3.2	0.0	4.8	2.2	2.7	3.2	0.0
								SCIG Yard Additional BNSF Yard Capacity Needed	69.5%	1,928,260 0	0	0	1,920,200	0.0	0.0	0.0	0.0	0.0		.0 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								UP Off-Dock Yards Total		2,029,747		4,364,684		0.0	3.8	7.7	0.0	11.5		.5 (0.0	0.0	10.7	0.0	6.6	13.4	0.0	20.0	7.2	13.9	21.1	0.0
								East L.A. Yard ICTF Yard	100.0% 69.5%	101,487 1,928,260	1,540,615	2,044,811	3,686,913 1,928,260	0.0	0.2 3.6	0.4 7.3	0.0	0.6 10.9				0.0	5.4 0.0	0.0	3.1 0.0	6.3 0.0	0.0	9.4 0.0	3.6 0.0	5.1 3.6	6.7 7.3	0.0
								City of Industry Yard	100.0%	0	308,123	852,366		0.0	0.0	0.0						0.0	1.1	0.0	1.3	2.6	0.0	3.9	0.7	1.6	2.6	0.0
								LATC Yard	100.0%	0				0.0	0.0	0.0	0.0	0.0					4.3 0.0	0.0	2.2 0.0	4.5 0.0	0.0	6.7 0.0	2.9 0.0	3.6 0.0	4.5	0.0
									100.0%	0	1,232,492	1,467,508				0.0		0.0	00 /				0.0					0.0				
								Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed	100.0%	0	1,232,492 0	1,467,508		0.0	0.0	0.0		0.0	0.0	.0 (0.0	0.0		0.0	0.0		0.0			0.0	0.0	0.0
								Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total including Additional Yard Capacity Neede	ed	0 0 15,743,200	0 0 6,162,460	0 0 8,729,369	0 0 30,635,029	0.0			0.0		0.0				21.5		13.2			40.0			91.2	0.0
204	46 With Project	2046 Cumulative	Yes	Yes	Yes	Modified Maximum		Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed	ed	0 0 15,743,200 15,743,200	0 0 6,162,460	0 0 8,729,369	0 0 30,635,029 30,635,029	0.0	0.0 25.9	64.4	0.0						21.5					40.0		46.1		
ass	suming maximum	2046 Cumulative	Yes	Yes	Yes	Practical	No	Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total including Additional Yard Capacity Neede Total excluding Additional Yard Capacity Neede On-Dock Yards Total On-Dock Yards BNSF Total	ed	15,743,200 15,743,200 11,683,706 5,841,853	0 0 6,162,460	0 0 8,729,369	0 30,635,029 30,635,029 11,683,706 5,841,853	0.0 0.0 0.0 0.0	25.9 21.9 10.9	64.4 44.4 22.2	0.0 0.0 0.0 0.0	90.2 66.3 33.1					21.5					40.0	14.4 0.0 0.0	46.1 21.9 10.9	91.2 44.4 22.2	0.0 0.0 0.0
ass	•	2046 Cumulative	Yes	Yes	Yes	Practical Capacities at HOB&COM, ELA,	No	Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total including Additional Yard Capacity Neede Total excluding Additional Yard Capacity Neede On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total	ed	15,743,200 15,743,200 15,743,200 11,683,706 5,841,853 5,841,853	0 0 6,162,460 6,162,460	8,729,369 8,729,369	0 30,635,029 30,635,029 11,683,706 5,841,853 5,841,853	0.0 0.0 0.0 0.0 0.0	25.9 21.9 10.9 10.9	64.4 44.4 22.2 22.2	0.0 0.0 0.0 0.0 0.0	90.2 66.3 33.1 33.1	14.4	.1 (0.0	0.0		0.0	13.2	26.8	0.0		14.4 0.0 0.0 0.0	46.1 21.9 10.9 10.9	91.2 44.4 22.2 22.2	0.0 0.0 0.0 0.0
ass der cap giv	suming maximum mand equal to pacity of SCIG ring BNSF higher	2046 Cumulative	Yes	Yes	Yes	Practical Capacities at HOB&COM, ELA, LATC and COI	No	Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total including Additional Yard Capacity Neede Total excluding Additional Yard Capacity Neede On-Dock Yards Total On-Dock Yards BNSF Total	ed	15,743,200 15,743,200 11,683,706 5,841,853	6,162,460 6,162,460	0 0 8,729,369	0 30,635,029 30,635,029 11,683,706 5,841,853 5,841,853 18,951,323	0.0 0.0 0.0 0.0 0.0	25.9 21.9 10.9 10.9	64.4 44.4 22.2 22.2	0.0 0.0 0.0 0.0 0.0 0.0	90.2 66.3 33.1 33.1 23.3	14.4	.1 0	0.0	0.0	21.5 21.5 10.7	0.0	13.2		0.0	40.0 40.0 20.0	14.4 0.0 0.0	46.1 21.9 10.9	91.2 44.4 22.2	0.0 0.0 0.0
ass der cap giv	suming maximum mand equal to pacity of SCIG	2046 Cumulative	Yes	Yes	Yes	Practical Capacities at HOB&COM, ELA,	No	Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total including Additional Yard Capacity Needed Total excluding Additional Yard Capacity Needed On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards	64.1%	15,743,200 15,743,200 15,743,200 11,683,706 5,841,853 4,059,494 2,921,053 146,053	6,162,460 6,162,460 6,162,460 3,081,230 2,156,861	8,729,369 8,729,369 8,729,369 4,364,684 3,309,053	0 30,635,029 30,635,029 11,683,706 5,841,853 5,841,853 18,951,323 10,366,967 5,611,967	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 25.9 21.9 10.9 10.9 2.4 0.3 0.3	64.4 44.4 22.2 22.2 20.9 16.6 0.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	90.2 66.3 33.1 33.1 23.3 16.8 0.8	14.4 1 7.2 3 5.0 2	.1 (C	0.0	0.0 0.0 0.0 0.0	21.5 10.7 7.5	0.0 0.0 0.0 0.0	13.2 13.2 6.6 5.0	26.8 26.8 13.4 10.2	0.0 0.0 0.0 0.0	40.0 20.0 15.2	14.4 0.0 0.0 0.0 14.4 7.2 5.0	46.1 21.9 10.9 10.9 22.7 10.4 7.8	91.2 44.4 22.2 22.2 47.7 30.0 10.7	0.0 0.0 0.0 0.0
ass der cap giv	suming maximum mand equal to pacity of SCIG ring BNSF higher	2046 Cumulative	Yes	Yes	Yes	Practical Capacities at HOB&COM, ELA, LATC and COI	No	Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total including Additional Yard Capacity Neede Total excluding Additional Yard Capacity Neede On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total	ed ed	15,743,200 15,743,200 15,743,200 11,683,705 5,841,853 5,841,853 4,059,494 2,921,053	6,162,460 6,162,460 6,162,460 3,081,230	8,729,369 8,729,369 8,729,369 4,364,684	0 30,635,029 30,635,029 11,683,706 5,841,853 5,841,853 18,951,323 10,366,967 5,611,967	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 25.9 21.9 10.9 10.9 2.4 0.3	64.4 44.4 22.2 22.2 20.9 16.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	90.2 66.3 33.1 33.1 23.3 16.8 0.8	14.4 7.2 5.0 2.2	.1 (C.5. (C.5. (C.1. (C.5. (C.1. (C.5. (C.1. (C.5. (C.1. (C.5. (C.1. (C.5. (C.1. (C.5. (C.	0.0 0.0 0.0 0.0	0.0	21.5 10.7	0.0 0.0 0.0	13.2 6.6	26.8 26.8 13.4	0.0	40.0 20.0	14.4 0.0 0.0 0.0 14.4 7.2	46.1 21.9 10.9 10.9 22.7	91.2 44.4 22.2 22.2 47.7 30.0	0.0 0.0 0.0 0.0
ass der cap giv	suming maximum mand equal to pacity of SCIG ring BNSF higher	2046 Cumulative	Yes	Yes	Yes	Practical Capacities at HOB&COM, ELA, LATC and COI	No	Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total including Additional Yard Capacity Neede Total excluding Additional Yard Capacity Neede On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	64.1% 100.0%	15,743,200 15,743,200 11,683,706 5,841,853 5,841,853 4,059,494 2,921,053 146,053 0 2,775,000	6,162,460 6,162,460 6,162,460 3,081,230 2,156,861 924,369 0	8,729,369 8,729,369 8,729,369 4,364,684 3,309,053 1,055,631 0	0 30,635,029 30,635,029 11,683,706 5,841,853 5,841,853 18,951,323 10,366,967 5,611,967 1,980,000 2,775,000	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 25.9 21.9 10.9 10.9 2.4 0.3 0.3 0.0 0.0 0.0	64.4 44.4 22.2 22.2 20.9 16.6 0.6 0.0 16.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	90.2 66.3 33.1 33.1 23.3 16.8 0.8 0.0 16.0 0.0	14.4 7.2 5.0 2.2 0.0 0.0 0.0	.1 C	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	21.5 10.7 7.5 3.2 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	13.2 6.6 5.0 1.6	26.8 13.4 10.2 3.2 0.0 0.0	0.0 0.0 0.0 0.0 0.0	40.0 20.0 15.2 4.8 0.0 0.0	14.4 0.0 0.0 0.0 14.4 7.2 5.0	46.1 21.9 10.9 10.9 22.7 10.4 7.8	91.2 44.4 22.2 22.2 47.7 30.0 10.7	0.0 0.0 0.0 0.0
ass der cap giv	suming maximum mand equal to pacity of SCIG ring BNSF higher	2046 Cumulative	Yes	Yes	Yes	Practical Capacities at HOB&COM, ELA, LATC and COI	No	Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total including Additional Yard Capacity Needed Total excluding Additional Yard Capacity Needed On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed UP Off-Dock Yards Total	64.1% 100.0%	15,743,200 15,743,200 11,683,706 5,841,853 4,059,494 2,921,053 146,053 0 2,775,000 0 1,138,441	6,162,460 6,162,460 3,081,230 2,156,861 924,369 0 3,081,230	8,729,369 8,729,369 8,729,369 4,364,684 3,309,053 1,055,631 0 4,364,684	0 30,635,029 30,635,029 11,683,706 5,841,853 5,841,853 10,366,967 5,611,967 1,980,000 2,775,000 0 8,584,356	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 25.9 21.9 10.9 10.9 2.4 0.3 0.3 0.0 0.0 0.0 2.1	64.4 44.4 22.2 22.2 20.9 16.6 0.6 0.0 16.0 0.0 4.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	90.2 66.3 33.1 33.1 23.3 16.8 0.8 0.0 16.0 0.0 6.5	14.4 7.2 5.0 2.2 0.0 0.0 0.7.2 5.0 7.2 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	.1 C	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	21.5 10.7 7.5 3.2 0.0 0.0 10.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	13.2 6.6 5.0 1.6 0.0 0.0 6.6	26.8 13.4 10.2 3.2 0.0 0.0 13.4	0.0 0.0 0.0 0.0 0.0 0.0	40.0 20.0 15.2	14.4 0.0 0.0 0.0 14.4 7.2 5.0	46.1 21.9 10.9 10.9 22.7 10.4 7.8	91.2 44.4 22.2 22.2 47.7 30.0 10.7	0.0 0.0 0.0 0.0
ass der cap giv	suming maximum mand equal to pacity of SCIG ring BNSF higher	2046 Cumulative	Yes	Yes	Yes	Practical Capacities at HOB&COM, ELA, LATC and COI	No	Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total including Additional Yard Capacity Neede Total excluding Additional Yard Capacity Neede On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	64.1% 100.0%	15,743,200 15,743,200 11,683,706 5,841,853 5,841,853 4,059,494 2,921,053 146,053 0 2,775,000	6,162,460 6,162,460 6,162,460 3,081,230 2,156,861 924,369 0	8,729,369 8,729,369 8,729,369 4,364,684 3,309,053 1,055,631 0	0 30,635,029 30,635,029 11,683,706 5,841,853 5,841,853 10,366,967 5,611,967 1,980,000 2,775,000 0 8,584,356	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 25.9 21.9 10.9 10.9 2.4 0.3 0.3 0.0 0.0 0.0	64.4 44.4 22.2 22.2 20.9 16.6 0.6 0.0 16.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	90.2 66.3 33.1 33.1 23.3 16.8 0.0 16.0 0.0 6.5 0.3 6.1	114.4 7.2 5.0 2.2 0.0 0.0 0.0 7.2 3.6 0.0 0.0 0.0	.1 C	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	21.5 10.7 7.5 3.2 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	13.2 6.6 5.0 1.6 0.0	26.8 13.4 10.2 3.2 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	40.0 20.0 15.2 4.8 0.0 0.0	14.4 0.0 0.0 0.0 14.4 7.2 5.0	46.1 21.9 10.9 10.9 22.7 10.4 7.8	91.2 44.4 22.2 22.2 47.7 30.0 10.7	0.0 0.0 0.0 0.0
ass der cap giv	suming maximum mand equal to pacity of SCIG ring BNSF higher	2046 Cumulative	Yes	Yes	Yes	Practical Capacities at HOB&COM, ELA, LATC and COI	No	Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total including Additional Yard Capacity Needed Total excluding Additional Yard Capacity Needed Total excluding Additional Yard Capacity Needed On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed UP Off-Dock Yards Total East L.A. Yard City of Industry Yard	64.1% 100.0% 100.0% 100.0%	15,743,200 15,743,200 11,683,706 5,841,853 5,841,853 4,059,494 2,921,053 146,053 0 2,775,000 0 1,138,441 56,922 1,081,519	6,162,460 6,162,460 6,162,460 3,081,230 2,156,861 924,369 0 0 3,081,230 1,540,615 0 308,123	8,729,369 8,729,369 8,729,369 4,364,684 3,309,053 1,055,631 0 0 4,364,684 2,117,079 0 780,098	0 30,635,029 30,635,029 11,683,706 5,841,853 5,841,853 18,951,323 10,366,967 5,611,967 1,980,000 0,775,000 0 8,584,356 3,714,616 1,081,519 1,088,221	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 25.9 21.9 10.9 10.9 2.4 0.3 0.0 0.0 0.0 2.1 0.1 2.0 0.0	64.4 44.4 22.2 22.2 20.9 16.6 0.0 16.0 0.0 4.3 0.2 4.1 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	90.2 66.3 33.1 33.1 16.8 0.8 0.0 16.0 0.0 6.5 0.3 6.1 0.0	14.4 7.2 5.0 2.2 0.0 0.0 0.0 0.7 0.0 0.7	.1 C.1 C.5 C.5 C.5 C.0 C.0 C.5 C.8 C.0 C.4 C.4 C.4 C.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	21.5 10.7 7.5 3.2 0.0 0.0 10.7 5.4 0.0 1.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	13.2 6.6 5.0 1.6 0.0 0.0 6.6 3.2 0.0 1.2	26.8 13.4 10.2 3.2 0.0 0.0 13.4 6.5 0.0 2.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	40.0 20.0 15.2 4.8 0.0 0.0 20.0 9.7 0.0 3.6	14.4 0.0 0.0 0.0 14.4 7.2 5.0 2.2 0.0 0.0 7.2 3.6 0.0 0.7	46.1 21.9 10.9 10.9 22.7 10.4 7.8	91.2 44.4 22.2 22.2 47.7 30.0 10.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
ass der cap giv	suming maximum mand equal to pacity of SCIG ring BNSF higher	2046 Cumulative	Yes	Yes	Yes	Practical Capacities at HOB&COM, ELA, LATC and COI	No	Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total Additional Yard Capacity Needed Total excluding Additional Yard Capacity Needed On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed UP Off-Dock Yards Total East L.A. Yard ICTF Yard City of Industry Yard LATC Yard	64.1% 100.0% 100.0% 39.0%	15,743,200 15,743,200 11,683,706 5,841,853 5,841,853 4,059,494 2,921,053 146,053 0 2,775,000 0 1,138,441 56,922 1,081,519	6,162,460 6,162,460 3,081,230 2,156,861 924,369 0 3,081,230 1,540,615	8,729,369 8,729,369 8,729,369 4,364,684 3,309,053 1,055,631 0 4,364,684 2,117,079	0 30,635,029 30,635,029 11,683,706 5,841,853 5,841,853 10,366,967 5,611,967 1,980,000 2,775,000 0 8,584,356 3,714,616 1,081,519 1,088,221 2,700,000	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 25.9 21.9 10.9 10.9 2.4 0.3 0.0 0.0 0.0 0.0 2.1 0.1 2.0	64.4 44.4 22.2 22.2 20.9 16.6 0.0 16.0 0.0 4.3 0.2 4.1 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	90.2 66.3 33.1 33.1 16.8 0.8 0.0 16.0 0.0 6.5 0.3 6.1 0.0 0.0	14.4 7.2 5.0 2.2 2.2 0.0 0.0 0.7 2.9 0.0 0.7 2.9	.1 C	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	21.5 10.7 7.5 3.2 0.0 0.0 10.7 5.4 0.0 1.1 4.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	13.2 6.6 5.0 1.6 0.0 0.0 6.6 3.2 0.0	26.8 13.4 10.2 3.2 0.0 0.0 13.4 6.5 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	40.0 20.0 15.2 4.8 0.0 0.0 20.0 9.7 0.0	14.4 0.0 0.0 0.0 14.4 7.2 5.0 2.2 0.0 0.0 7.2 3.6 0.0	46.1 21.9 10.9 10.9 22.7 10.4 7.8	91.2 44.4 22.2 22.2 47.7 30.0 10.7 3.2 16.0 0.0 17.7 6.7 4.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
ass der cap giv	suming maximum mand equal to pacity of SCIG ring BNSF higher	2046 Cumulative	Yes	Yes	Yes	Practical Capacities at HOB&COM, ELA, LATC and COI	No	Additional UP Yard Capacity Needed Total Additional Yard Capacity Needed Total including Additional Yard Capacity Needed Total excluding Additional Yard Capacity Needed Total excluding Additional Yard Capacity Needed On-Dock Yards Total On-Dock Yards BNSF Total On-Dock Yards UP Total Off-Dock Yards Total BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed UP Off-Dock Yards Total East L.A. Yard City of Industry Yard	64.1% 100.0% 100.0% 100.0% 100.0% 100.0%	15,743,200 15,743,200 11,683,706 5,841,853 5,841,853 4,059,494 2,921,053 146,053 0 2,775,000 0 11,138,441 56,922 1,081,519	6,162,460 6,162,460 6,162,460 3,081,230 2,156,861 924,369 0 3,081,230 1,540,615 0 308,123 1,232,492 0	8,729,369 8,729,369 8,729,369 4,364,684 3,309,053 1,055,631 0 4,364,684 2,117,079 0 780,098 1,467,508 0	0 30,635,029 30,635,029 11,683,706 5,841,853 5,841,853 10,366,967 5,611,967 1,980,000 2,775,000 0 8,584,356 3,714,616 1,081,519 1,088,221 2,700,000	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 25.9 21.9 10.9 10.9 2.4 0.3 0.0 0.0 0.0 2.1 0.1 2.0 0.0 0.0	64.4 44.4 22.2 22.2 20.9 16.6 0.0 16.0 0.0 4.3 0.2 4.1 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	90.2 66.3 33.1 33.1 23.3 16.8 0.0 0.0 6.5 0.3 6.1 0.0 0.0 0.0	14.4 7.2 5.5 0.2 2.2 0.0 0.0 0.0 0.7 7.2 3.6 0.0 0.7 0.7 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	.1 C	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	21.5 10.7 7.5 3.2 0.0 0.0 10.7 5.4 0.0 1.1 4.3 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	13.2 6.6 5.0 1.6 0.0 0.0 6.6 3.2 0.0 1.2 2.2 0.0	26.8 13.4 10.2 3.2 0.0 0.0 13.4 6.5 0.0 2.4 4.5 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	40.0 20.0 15.2 4.8 0.0 0.0 20.0 9.7 0.0 3.6 6.7 0.0	14.4 0.0 0.0 0.0 14.4 7.2 5.0 0.0 7.2 3.6 0.0 0.7 2.9 0.0	46.1 21.9 10.9 10.9 22.7 10.4 7.8 2.7 0.0 0.0 12.3 5.1 2.0 1.5 3.6	91.2 44.4 22.2 22.2 47.7 30.0 10.7 3.2 16.0 0.0 17.7 6.7 4.1 2.4 4.5 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

1																+E IM Tr					L IM Tra					L+E IM T					I IM Tra		
No.	Title	Description	SCIG included ?	ICTF Imps included ?	Pier S) included?	assumptions ***	Transload permitted at SCIG and ICTF? (Domestic not permitted at ICTF and SCIG)	Yard	% Lifts Capacity Utilization	TEUs	TL L TEUs	Dom L+E TEUs	Total TEUs	12K	10K			Total	12K	10K	8K	6K	Total	1 12K	10K	8K	6K	Total		10K	8K	6K	Total
11	2020 No Project assuming equal		No	Yes	Yes	Modified Maximum Practical		On-Dock Yards Total On-Dock Yards BNSF Total		7,117,834 3,558,917			7,117,834 3,558,917		13.3 6.7	27.0 13.5	0.0	40.4 20.2											0.0	13.3 6.7	27.0 13.5	0.0	40.4 20.2
	BNSF-UP IPI market					Capacities at HOB&COM, ELA,		On-Dock Yards UP Total		3,558,917			3,558,917		6.7	13.5	0.0	20.2											0.0	6.7	13.5	0.0	20.2
	shares					LATC and COI		Off-Dock Yards Total BNSF Off-Dock Yards Total		1,612,966 806,483		4,930,446 2,465,223			3.0 1.5	6.1 3.1	0.0	9.1 4.6	7.9 4.0	3.9 2.0	0.0	0.0	11.8 5.9	0.0	7.5 3.7	15.1 7.6	0.0	22.6 11.3	7.9 4.0	14.4 7.2	21.3	0.0	43.6 21.8
						Yards		Hobart & Commerce Yards	46.9%	806,483	1,189,965	1,725,656	3,722,104	0.0	1.5	3.1	0.0	4.6	2.8	1.4	0.0	0.0	4.1	0.0	2.6	5.3	0.0	7.9	2.8	5.5	8.4	0.0	16.6
								San Bernardino Yard SCIG Yard	63.1% N/A	0	509,985	739,567	1,249,552	0.0	0.0	0.0	0.0	0.0	1.2 0.0	0.6	0.0	0.0	1.8	0.0	1.1	2.3	0.0	3.4	1.2	1.7	2.3	0.0	5.2
								Additional BNSF Yard Capacity Needed	IN/A	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								UP Off-Dock Yards Total East L.A. Yard	57.3%	806,483 40,324	1,699,950 849,975	2,465,223 1,232,612		0.0	1.5 0.1	3.1 0.2	0.0	4.6 0.2	4.0 2.0	2.0 1.0	0.0	0.0	5.9 3.0	0.0	3.7 1.9	7.6 3.8	0.0	11.3	4.0 2.0	7.2	10.6 3.9	0.0	21.8
								ICTF Yard	27.6%	766,159	0	0	766,159	0.0	1.4	2.9	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.9	0.0	4.3
								City of Industry Yard LATC Yard	59.8% 61.7%	0	169,995 679,980	246,522 986,089	-,-		0.0	0.0	0.0	0.0	0.4 1.6	0.2 0.8	0.0	0.0	0.6 2.4	0.0	0.4 1.5	0.8 3.0	0.0	1.1 4.5	0.4 1.6	0.6 2.3	0.8 3.0	0.0 0.0	1.7 6.9
								Additional UP Yard Capacity Needed	01.7%	0	0	0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								Total Additional Yard Capacity Needed		0 730 900	3 300 000	4 020 446	47.064.446		46.2	22.2		40.5	7.0	2.0	0.0	0.0	44.0		7.5	45.4	0.0	22.6	7.0	27.7	40.2	0.0	02.0
								Total including Additional Yard Capacity Needed Total excluding Additional Yard Capacity Neede		8,730,800 8,730,800		4,930,446 4,930,446		0.0	16.3	33.2	0.0	49.5	7.9	3.9	0.0	0.0	11.0	0.0	7.5	15.1	0.0	22.0	7.9	27.7	48.3	0.0	83.9
	•	2020 Cumulative	Yes	Yes	Yes	Modified Maximum Practical		On-Dock Yards Total		7,117,834			7,117,834		13.3	27.0	0.0	40.4 20.2											0.0	13.3 6.7	27.0 13.5	0.0	40.4
	assuming equal BNSF-UP IPI market					Capacities at		On-Dock Yards BNSF Total On-Dock Yards UP Total		3,558,917 3,558,917			3,558,917 3,558,917		6.7 6.7	13.5 13.5	0.0	20.2											0.0	6.7	13.5	0.0	20.2 20.2
	shares					HOB&COM, ELA, LATC and COI		Off-Dock Yards Total BNSF Off-Dock Yards Total		1,612,966 806,483		4,930,446 2,465,223			1.6 0.1	7.9 4.9	0.0	9.5 4.9	7.9 4.0	3.9 2.0	0.0	0.0	11.8 5.9	0.0	7.5 3.7	15.1	0.0	22.6 11.3	7.9	12.9	23.1	0.0	44.0 22.2
						Yards		Hobart & Commerce Yards	33.1%	40,324	1,189,965	1,725,656			0.1	0.2	0.0	0.2	2.8	1.4	0.0	0.0	4.1	0.0	2.6	5.3	0.0	7.9	2.8	4.1	5.5	0.0	12.3
								San Bernardino Yard	63.1%	766 150	509,985	739,567			0.0	0.0 4.7	0.0	0.0 4.7	1.2	0.6	0.0	0.0	1.8	0.0	1.1	2.3	0.0	3.4	1.2	1.7	2.3	0.0	5.2
								SCIG Yard Additional BNSF Yard Capacity Needed	27.6%	766,159 0	0	0	766,159 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								UP Off-Dock Yards Total		806,483		2,465,223			1.5	3.1	0.0	4.6	4.0	2.0	0.0	0.0	5.9	0.0	3.7	7.6	0.0	11.3	4.0	7.2	10.6	0.0	21.8
								East L.A. Yard ICTF Yard	57.3% 27.6%	40,324 766,159	849,975 0	1,232,612 0	2,122,911 766,159		0.1 1.4	0.2 2.9	0.0	0.2 4.3	2.0 0.0	1.0 0.0	0.0	0.0	3.0 0.0	0.0	0.0	0.0	0.0	5.6 0.0	0.0	2.9 1.4	3.9 2.9	0.0	8.8 4.3
								City of Industry Yard	59.8%	0	169,995	246,522			0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.6	0.0	0.4	0.8	0.0	1.1	0.4	0.6	0.8	0.0	1.7
								LATC Yard Additional UP Yard Capacity Needed	61.7%	0	679,980 0	986,089 0	,,	0.0	0.0	0.0	0.0	0.0	1.6 0.0	0.8	0.0	0.0	2.4 0.0		1.5 0.0	3.0 0.0	0.0	4.5 0.0	1.6 0.0	2.3 0.0	3.0 0.0	0.0 0.0	6.9
								Total Additional Yard Capacity Needed Total including Additional Yard Capacity Needed		8,730,800 8,730,800			0 17,061,146		14.9	35.0	0.0	49.9	7.9	3.9	0.0	0.0		0.0		15.1			7.9	26.3	50.1	0.0	84.3
,	2030 No Project		No	Yes	Yes	Modified Maximum		Total excluding Additional Yard Capacity Neede On-Dock Yards Total	u .	8,730,800 10,951,946	3,399,900	4,930,446	17,061,146 10,951,946	0.0	20.5	41.6	0.0	62.1											0.0	20.5	41.6	0.0	62.1
	assuming equal BNSF-UP IPI market					Practical Capacities at		On-Dock Yards BNSF Total On-Dock Yards UP Total		5,475,973 5,475,973			5,475,973 5.475.973		10.2 10.2	20.8 20.8	0.0	31.1 31.1											0.0	10.2 10.2	20.8 20.8	0.0 0.0	31.1 31.1
	shares					HOB&COM, ELA, LATC and COI		Off-Dock Yards Total		2,873,254		7,293,339			5.4	10.9	0.0	16.3	12.6	6.2	0.0	0.0	18.8		11.0	22.4	0.0	33.4	12.6	22.6	33.3	0.0	68.6
						Yards		BNSF Off-Dock Yards Total Hobart & Commerce Yards	75.3%	1,436,627 1,436,627	2,705,850 1,894,095	3,646,670 2,552,669		0.0 0.0	2.7 2.7	5.5 5.5	0.0 0.0	8.1 8.1	6.3 4.4	3.1 2.2	0.0 0.0	0.0 0.0	9.4 6.6	0.0 0.0	5.5 3.9	11.2 7.8	0.0	16.7 11.7	6.3 4.4	11.3 8.7	16.7 13.3	0.0	34.3 26.4
								San Bernardino Yard	96.3%	0	811,755	1,094,001	1,905,756		0.0	0.0	0.0	0.0	1.9	0.9	0.0	0.0	2.8	0.0	1.7	3.4	0.0	5.0	1.9	2.6	3.4	0.0	7.8
								SCIG Yard Additional BNSF Yard Capacity Needed	N/A	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								UP Off-Dock Yards Total		1,436,627		3,646,670			2.7	5.5	0.0	8.1	6.3	3.1	0.0	0.0	9.4	0.0	5.5	11.2	0.0	16.7	6.3	11.3	16.7	0.0	34.
								East L.A. Yard ICTF Yard	87.8% 49.2%	71,831 1,364,796	1,352,925	1,823,335 0	3,248,091 1,364,796	0.0	0.1 2.6	0.3 5.2	0.0	0.4 7.7	3.2 0.0	1.6 0.0	0.0	0.0	4.7 0.0	0.0	2.8 0.0	5.6 0.0	0.0	0.0	3.2 0.0	4.4 2.6	5.9 5.2	0.0	13.5
								City of Industry Yard	91.3%	0	270,585	364,667			0.0	0.0	0.0	0.0	0.6	0.3	0.0	0.0	0.9			1.1	0.0	1.7	0.6	0.9	1.1	0.0	2.6
								LATC Yard Additional UP Yard Capacity Needed	94.1%	0	1,082,340 0	1,458,668 0		0.0	0.0	0.0	0.0	0.0	2.5 0.0	1.2 0.0	0.0	0.0	3.8 0.0			4.5 0.0	0.0		2.5 0.0	3.4 0.0	4.5 0.0	0.0 0.0	10.5
								Total Additional Yard Capacity Needed		0	0	0	0																				
								Total including Additional Yard Capacity Needer Total excluding Additional Yard Capacity Neede		13,825,200 13,825,200		7,293,339 7,293,339		0.0	25.9	52.5	0.0	78.4	12.6	6.2	0.0	0.0	18.8	0.0	11.0	22.4	0.0	33.4	12.6	43.1	74.9	0.0	130.
	•	2030 Cumulative	Yes	Yes	Yes	Modified Maximum Practical	n No	On-Dock Yards Total		10,951,946		1,200,000	10,951,946 5,475,973				0.0												0.0		41.6	0.0	62.1
	assuming equal BNSF-UP IPI market					Capacities at		On-Dock Yards BNSF Total On-Dock Yards UP Total		5,475,973 5,475,973			5,475,973		10.2 10.2		0.0 0.0	31.1 31.1											0.0	10.2 10.2	20.8 20.8	0.0 0.0	31.1 31.1
	shares					HOB&COM, ELA, LATC and COI		Off-Dock Yards Total		2,873,254		7,293,339			2.8	14.1	0.0	17.0	12.6	6.2	0.0	0.0	18.8						12.6	20.1	36.5	0.0	69.2
						Yards		BNSF Off-Dock Yards Total Hobart & Commerce Yards	50.7%	1,436,627 71,831	2,705,850 1,894,095	3,646,670 2,552,669			0.1 0.1	8.7 0.3	0.0 0.0	8.8 0.4	6.3 4.4	3.1 2.2	0.0	0.0	9.4 6.6		5.5 3.9	11.2 7.8	0.0	16.7 11.7	6.3 4.4	6.2	19.9 8.1	0.0 0.0	34.9 18.7
								San Bernardino Yard	96.3%	0	811,755	1,094,001	1,905,756		0.0	0.0	0.0	0.0	1.9	0.9	0.0	0.0	2.8	0.0	1.7	3.4	0.0	5.0	1.9	2.6	3.4	0.0	7.8
								SCIG Yard Additional BNSF Yard Capacity Needed	49.2%	1,364,796 0	0	0	1,364,796 0	0.0	0.0	8.4 0.0	0.0	8.4 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4 0.0
								UP Off-Dock Yards Total	0= ***	1,436,627		3,646,670			2.7	5.5	0.0	8.1	6.3	3.1	0.0	0.0	9.4	0.0	5.5	11.2	0.0	16.7	6.3	11.3	16.7	0.0	34.3
								East L.A. Yard ICTF Yard	87.8% 49.2%	71,831 1,364,796	1,352,925	1,823,335 0	3,248,091 1,364,796		0.1 2.6	0.3 5.2	0.0	0.4 7.7	3.2 0.0	1.6 0.0	0.0	0.0	4.7 0.0	0.0	0.0	5.6 0.0	0.0	0.0	0.0	2.6	5.9	0.0	13.5 7.7
								City of Industry Yard	91.3%	0	270,585	364,667	635,252	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.0	0.0	0.9		0.6	1.1	0.0	1.7	0.6	0.9	1.1	0.0	2.6
								LATC Yard Additional UP Yard Capacity Needed	94.1%	0	1,082,340 0	1,458,668 0		0.0	0.0	0.0	0.0	0.0	2.5 0.0	1.2 0.0	0.0	0.0	3.8 0.0			4.5 0.0	0.0	6.7 0.0	2.5 0.0	3.4 0.0	4.5 0.0	0.0 0.0	10.5 0.0
								Total Additional Yard Capacity Needed		0	0	0	0																				
								Total including Additional Yard Capacity Needed Total excluding Additional Yard Capacity Neede			5,411,700 5,411,700		26,530,239 26,530,239	0.0	23.3	55.7	0.0	79.1	12.6	6.2	0.0	0.0	18.8	0.0	11.0	22.4	0.0	33.4	12.6	40.6	78.1	0.0	131.3
								. C.a. Sacrading Additional Tara Capacity Neede	-	10,020,200	0,411,700	.,200,000	20,000,209																				

SCIG Scenarios Lifts/TEUs Data from Train Builder Intermodal Rail Analysis Module embedded in Quick Trip - Train Builder Integrated Model Prepared for the Port of Los Angeles by Cambridge Systematics on August 13, 2012

DEMAND in Lifts	
On-Dock Yards Total	0/ 14 1 1 0 11
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

IPI L+E	TL L	Dom L+E	Total Lifts	Util. %
1,840,321			1,840,321	
100%				
1,037,123			1,037,123	
803,198			803,198	
912,306	639,251	1,091,004	2,642,561	
35%	24%	41%		
448,592	305,116	640,338	1,394,046	
448,455	168,528	349,491	966,474	56.9%
137	136,588	290,847	427,572	64.8%
0	0	0	0	
0	0	0	0	
463,714	334,135	450,666	1,248,515	
36,862	146,751	227,856	411,469	63.3%
417,992	2,452	1,300	421,744	51.3%
103	111,276	119,900	<i>231,279</i>	99.7%
8,757	73,656	101,610	184,023	54.1%
0	0	0	0	

0	0	0	0	
2,752,627	639,251	1,091,004	4,482,882	
2,752,627	639,251	1,091,004	4,482,882	

DEMAND in Lifts	
On-Dock Yards Total	0/14 / 10 //
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed	
Total including Additional Yard Capacity Needed	
Total excluding Additional Yard Capacity Needed	

Scenario #2 -	Baseline 201	0 w. 2035 BN	ISF volumes	
IPI L +E	TLL	Dom L+E	Total Lifts	Util. %
1,840,321			1,840,321	
100%				
1,037,123			1,037,123	
803,198			803,198	
2,042,661	639,251	1,091,004	3,772,916	
54%	17%	29%		
1,578,947	305,116	640,338	2,524,401	
78,947	168,528	349,491	596,966	35.1%
0	136,588	290,847	427,435	64.8%
1,500,000	0	0	1,500,000	100.0%
0	0	0	0	
463,714	334,135	450,666	1,248,515	
36,862	146,751	227,856	411,469	63.3%
417,992	2,452	1,300	421,744	51.3%
103	111,276	119,900	231,279	99.7%
8,757	73,656	101,610	184,023	54.1%
0	0	0	0	

0	0	0	0	
3,882,982	639,251	1,091,004	5,613,237	
3,882,982	639,251	1,091,004	5,613,237	

DEMAND in Lifts	
On-Dock Yards Total	
	% Market Split
On-Dock Yards BNSF Total On-Dock Yards UP Total	
OII-DOCK YAIRS OF TOTAL	
Off-Dock Yards Total	
	% Market Split
DNOT OF D. I.V. I. T. I.	
BNSF Off-Dock Yards Total	
Hobart & Commerce Yards	
San Bernardino Yard SCIG Yard	
00.0 14.4	
Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

Scenario #3 - 2	2016 No Pr	oject		
IPI L+E	TL L	Dom L+E	Total Lifts	Util. %
3,170,968			3,170,968	
100%				
1,585,484			1,585,484	
1,585,484			1,585,484	
685,655	923,450	1,393,227	3,002,332	
23%	31%	46%		
342,828	461,725	696,614	1,501,166	
342,828	323,207	487,630	1,153,665	38.5%
0	138,517	208,984	347,502	52.7%
0	0	0	0	N/A
0	0	0	0	
342,828	461,725	696,614	1,501,166	
17,141	230,862	348,307	596,311	47.7%
325,686	0	0	325,686	21.7%
0	46,172	69,661	115,834	49.9%
0	184,690	278,645	463,335	51.5%
0	0	0	0	

0	0	0	0	
3,856,624	923,450	1,393,227	6,173,301	
3,856,624	923,450	1,393,227	6,173,301	

DEMAND in Lifts	
On-Dock Yards Total	0/14 1 2 11
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

IPI L+E	TL L	Dom L+E	Total Lifts	Util. %
3,170,968			3,170,968	
100%				
1,585,484			1,585,484	
1,585,484			1,585,484	
685,655	923,450	1,393,227	3,002,332	
23%	31%	46%	5,552,552	
342,828	461,725	696,614	1,501,166	
17,141	323,207	487,630	827,978	27.6%
0	138,517	208,984	347,502	52.7%
325,686	0	0	325,686	21.7%
0	0	0	0	
342,828	461,725	696,614	1,501,166	
17,141	230,862	348,307	596,311	47.7%
325,686	0	0	325,686	21.7%
0	46,172	69,661	115,834	49.9%
0	184,690	278,645	463,335	51.5%
0	0	0	0	

0	0	0	0	
3,856,624	923,450	1,393,227	6,173,301	
3,856,624	923,450	1,393,227	6,173,301	

DEMAND in Lifts	
On-Dock Yards Total	
On-Dock Yards BNSF Total	% Market Split
On-Dock Yards UP Total	
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed	
Total including Additional Yard Capacity Needed	
Total excluding Additional Yard Capacity Needed	

Scenario #5 - 2	2023 No Proj	iect		
IPI L+E	TL L	Dom L+E	Total Lifts	Util. %
4,473,549			4,473,549	
100%				
2,236,774			2,236,774	
2,236,774			2,236,774	
070 007	1 210 000	4 050 554	4 4 2 4 4 4 2	
970,087	1,310,802	1,853,554	4,134,443	
23%	32%	45%		
485,043	655,401	926,777	2,067,221	
485,043	458,781	648,744	1,592,568	53.1%
0	196,620	278,033	474,653	71.9%
0	0	0	0	N/A
0	0	0	0	
485,043	655,401	926,777	2,067,221	
24,252	327,700	463,388	815,341	65.2%
460,791	327,700 N	403,300	460,791	30.7%
0	65,540	92,678	158,218	68.2%
0	262,160	370,711	632,871	70.3%
0	0	0	0	70.070

ı	0	0	0	0	
	5,443,636	1,310,802	1,853,554	8,607,992	
ı	5,443,636	1,310,802	1,853,554	8,607,992	

DEMAND in Lifts	
On-Dock Yards Total	0/14 100 10
On-Dock Yards BNSF Total	% Market Split
On-Dock Yards UP Total	
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

Scenario #6 - 2023 w. Project				
IPI L+E	TL L	Dom L+E	Total Lifts	Util. %
4,473,549			4,473,549	
100%				
2,236,774			2,236,774	
2,236,774			2,236,774	
970,087	1,310,802	1,853,554	4,134,443	
23%	32%	45%	, ,	
485,043	655,401	926,777	2,067,221	
24,252	458,781	648,744	1,131,777	37.7%
0	196,620	278,033	474,653	71.9%
460,791	0	0	460,791	30.7%
0	0	0	0	
485,043	655,401	926,777	2,067,221	
24,252	327,700	463,388	815,341	65.2%
460,791	0	0	460,791	30.7%
0	65,540	92,678	158,218	68.2%
0	262,160	370,711	632,871	70.3%
0	0	0	0	

_					
ı	0	0	0	0	
ı	5,443,636	1,310,802	1,853,554	8,607,992	
	5,443,636	1,310,802	1,853,554	8,607,992	

DEMAND in Lifts	
On-Dock Yards Total	
	% Market Split
On-Dock Yards BNSF Total	
On-Dock Yards UP Total	
Off-Dock Yards Total	
OII-DOCK YAI'US TOLAI	% Market Split
	% Market Split
BNSF Off-Dock Yards Total	
Hobart & Commerce Yards	
San Bernardino Yard	
SCIG Yard	
Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed	
Total including Additional Yard Capacity Needed	
Total excluding Additional Yard Capacity Needed	

Scenario #7 - 2035 No Project					
IPI L+E	TL L	Dom L+E	Total Lifts	Util. %	
6,315,517			6,315,517		
100%					
3,157,758			<i>3,157,758</i>		
3,157,758			3,157,758		
2,194,321	2,054,153	2,747,446	6,995,920		
31%	29%	39%			
1,097,160	1,027,077	1,373,723	3,497,960		
1,097,160	718,954	1,021,846	2,837,960	94.6%	
0	308,123	351,877	660,000	100.0%	
0	0	0	0	N/A	
0	0	0	0		
1,097,160	1,027,077	1,373,723	3,497,960		
54,858	513,538	681,604	1,250,000	100.0%	
1,042,302	0	0	1,042,302	69.5%	
0	102,708	202,950	305,658	131.7%	
0	410,831	489,169	900,000	100.0%	
0	0	0	0		

0	0	0	0	
8,509,838	2,054,153	2,747,446	13,311,437	
8,509,838	2,054,153	2,747,446	13,311,437	

DEMAND in Lifts	
On-Dock Yards Total	0/14 1 2 11
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

IPI L+E	TL L	Dom L+E	Total Lifts	Util. %
6,315,517			6,315,517	
100%				
3,157,758			3,157,758	
3,157,758			3,157,758	
2,194,321	2,054,153	2,747,446	6,995,920	
31%	29%	39%		
1,097,160	1,027,077	1,373,723	3,497,960	
54,858	718,954	1,021,846	1,795,658	59.9%
0	308,123	351,877	660,000	100.09
1,042,302	0	0	1,042,302	69.5%
0	0	0	0	
1,097,160	1,027,077	1,373,723	3,497,960	
54,858	513,538	681,604	1,250,000	100.09
1,042,302	0	0	1,042,302	69.5%
0	102,708	202,950	305,658	131.79
0	410,831	489,169	900,000	100.09
0	0	0	0	

1		•	•	•	
	0	0	0	0	
	8,509,838	2,054,153	2,747,446	13,311,437	
	8,509,838	2,054,153	2,747,446	13,311,437	

DEMAND in Lifts	
On-Dock Yards Total	0/14 1 2 11
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

Scenario #8b - 2035 w. Project (BNSF Higher IPI Share)				
IPI L+E	TL L	Dom L+E	Total Lifts	Util. %
6,315,517 <i>100%</i>			6,315,517	
3,157,758			3,157,758	
3,157,758			3,157,758	
2,194,321	2,054,153	2,747,446	6,995,920	
31%	29%	39%		
1,578,947	1,027,077	1,373,723	3,979,747	
78,947	718,954	1,021,846	1,819,747	60.7%
0	308,123	351,877	660,000	100.0%
1,500,000	0	0	1,500,000	100.0%
0	0	0	0	
615,374	1,027,077	1,373,723	3,016,173	
30,769	513,538	705,693	1,250,000	100.0%
584,605	0	0	584,605	39.0%
0	102,708	178,861	<i>281,568</i>	121.4%
0	410,831	489,169	900,000	100.0%
0	0	0	0	

I	0	0	0	0	
ı	8,509,838	2,054,153	2,747,446	13,311,437	
ı	8,509,838	2,054,153	2,747,446	13,311,437	

DEMAND in Lifts	
On-Dock Yards Total	0/14 1 10 19
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed	
Total including Additional Yard Capacity Needed	
Total excluding Additional Yard Capacity Needed	

Scenario #9 -	2046 No Proj	iect		
IPI L+E	TL L	Dom L+E	Total Lifts	Util. %
6,315,517			6,315,517	
100%				
3,157,758			<i>3,157,758</i>	
3,157,758			3,157,758	
2 104 221	2.054.152	2 000 700	7.450.274	
2,194,321	2,054,153	2,909,790	7,158,264	
31%	29%	41%		
1,097,160	1,027,077	1,454,895	3,579,132	
1,097,160	718,954	1,103,018	2,919,132	97.3%
0	308,123	351,877	660,000	100.0%
0	0	0	0	N/A
0	0	0	0	
1,097,160	1,027,077	1,454,895	3,579,132	
				100.0%
54,858	513,538	681,604	1,250,000	
1,042,302	100.700	0	1,042,302	69.5%
0	102,708	284,122	386,830	166.7%
0	410,831	489,169	900,000	100.0%
0	0	0	0	

- 6					
	0	0	0	0	
	8,509,838	2,054,153	2,909,790	13,473,781	
	8,509,838	2,054,153	2,909,790	13,473,781	

DEMAND in Lifts	
On-Dock Yards Total	
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total East L.A. Yard	
ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed		
Total including Additional Yard Capacity Needed		
Total excluding Additional Yard Capacity Needed		

Scenario #10a - 2046 w. Project (Equal BNSF-UP IPI Share) IPI L+E TL L Dom L+E Total Lifts Util. % 6,315,517 6,315,517 100% 3,157,758 3,157,758 3,157,758 3,157,758 2,194,321 2,054,153 2,909,790 7,158,264 31% 29% 41% 1,097,160 1,027,077 1,454,895 3,579,132 54,858 718,954 1,103,018 1,876,830 62.6% 0 308,123 351,877 660,000 100.0% 1,042,302 0 1,042,302 69.5% 0 0 0 0 0

1,454,895

681,604

284,122

489,169

0

0

3,579,132

1,250,000

1,042,302

386,830

900,000

0

100.0%

69.5%

166.7%

100.0%

0	0	0	0	
8,509,838	2,054,153	2,909,790	13,473,781	
8,509,838	2,054,153	2,909,790	13,473,781	

1,027,077

513,538

102,708

410,831

0

0

1,097,160

1,042,302

54,858

0

0

DEMAND in Lifts	
On-Dock Yards Total	0/14 1 2 11
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

cenario #10b	- 2046 w. Pr	oject (BNSF	Higher IPI Sh	nare)
IPI L+E	TL L	Dom L+E	Total Lifts	Util. %
6,315,517			6,315,517	
100%				
3,157,758			3,157,758	
3,157,758			3,157,758	
2,194,321	2,054,153	2,909,790	7,158,264	
31%	29%	41%		
1,578,947	1,027,077	1,454,895	4,060,919	
78,947	718,954	1,103,018	1,900,919	63.4%
0	308,123	351,877	660,000	100.0%
1,500,000	0	0	1,500,000	100.0%
0	0	0	0	
615,374	1,027,077	1,454,895	3,097,345	
30,769	513,538	705,693	1,250,000	100.0%
584,605	0	0	584,605	39.0%
0	102,708	260,033	362,740	156.4%
0	410,831	489,169	900,000	100.0%
0	0	0	0	

0	0	0	0	
8,509,838	2,054,153	2,909,790	13,473,781	
8,509,838	2,054,153	2,909,790	13,473,781	

DEMAND in Lifts	
On-Dock Yards Total	0/14 1 2 11
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

IPI L+E	TL L	Dom L+E	Total Lifts	Util. 9
3,847,478			3,847,478	
100%				
1,923,739			1,923,739	
1,923,739			1,923,739	
871,874	1,133,300	1,643,482	3,648,656	
24%	31%	45%		
435,937	566,650	821,741	1,824,328	
435,937	396,655	575,219	1,407,811	46.9%
0	169,995	246,522	416,517	63.19
0	0	0	0	N/A
0	0	0	0	
435,937	566,650	821,741	1,824,328	
21,797	283,325	410,871	715,992	57.3%
414,140	0	0	414,140	27.6%
0	56,665	82,174	138,839	59.8%
0	226,660	328,696	<i>555,356</i>	61.79
0	0	0	0	

DEMAND in Lifts	
On-Dock Yards Total	2/11/1/2/19
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total East L.A. Yard ICTF Yard City of Industry Yard LATC Yard Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

IPI L+E	TL L	Dom L+E	Total Lifts	Util. 9
3,847,478			3,847,478	
100%				
1,923,739			1,923,739	
1,923,739			1,923,739	
871,874	1,133,300	1,643,482	3,648,656	
24%	31%	45%		
435,937	566,650	821,741	1,824,328	
21,797	396,655	575,219	993,671	33.19
0	169,995	246,522	416,517	63.19
414,140	0	0	414,140	27.69
0	0	0	0	
435,937	566,650	821,741	1,824,328	
21,797	283,325	410,871	715,992	57.39
414,140	0	0	414,140	27.69
0	56,665	82,174	138,839	59.89
0	226,660	328,696	555,356	61.79
0	0	0	0	

Γ	0	0	0	0	
ı	4,719,351	1,133,300	1,643,482	7,496,133	
ı	4,719,351	1,133,300	1,643,482	7,496,133	

DEMAND in Lifts	
On-Dock Yards Total	0/14 1 10 19
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

IPI L+E	TL L	Dom L+E	Total Lifts	Util. %
5,919,971			5,919,971	
100%				
2,959,985			2,959,985	
2,959,985			2,959,985	
1,553,110	1,803,900	2,431,113	5,788,123	
27%	31%	42%		
776,555	901,950	1,215,557	2,894,062	
776,555	631,365	850,890	<i>2,258,810</i>	75.3%
0	270,585	364,667	<i>635,252</i>	96.3%
0	0	0	0	N/A
0	0	0	0	
776,555	901,950	1,215,557	2,894,062	
38,828	450,975	607,778	1,097,581	87.8%
737,727	0	0	737,727	49.2%
0	90,195	121,556	<i>211,751</i>	91.3%
0	360,780	486,223	847,003	94.1%
0	0	0	0	

0	0	0	0	
7,473,081	1,803,900	2,431,113	11,708,094	
7,473,081	1,803,900	2,431,113	11,708,094	

DEMAND in Lifts	
On-Dock Yards Total	0/14 1 10 19
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard City of Industry Yard	
LATC Yard	
Additional UP Yard Capacity Needed	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

Scenario #14 -	2030 w. Pro	ject		
IPI L+E	TL L	Dom L+E	Total Lifts	Util. %
5,919,971 <i>100%</i>			5,919,971	
2,959,985			2,959,985	
2,959,985			2,959,985	
1,553,110	1,803,900	2,431,113	5,788,123	
27%	31%	42%		
776,555	901,950	1,215,557	2,894,062	
38,828	631,365	850,890	1,521,082	50.7%
0	270,585	364,667	<i>635,252</i>	96.3%
737,727	0	0	737,727	49.2%
0	0	0	0	
776,555	901,950	1,215,557	2,894,062	
38,828	450,975	607,778	1,097,581	87.8%
737,727	0	0	737,727	49.2%
0	90,195	121,556	<i>211,751</i>	91.3%
0	360,780	486,223	847,003	94.1%
0	0	0	0	

-				
	0	0	0	0
	7,473,081	1,803,900	2,431,113	11,708,094
	7,473,081	1,803,900	2,431,113	11,708,094

DEMAND in TEUs	
On-Dock Yards Total	0/ 14 1 1 0 11
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard TEUs to be handled	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard City of Industry Yard	
LATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed	
Total including Additional Yard Capacity Needed	
Total excluding Additional Yard Capacity Needed	

Scenario #1 -	- Baseline 20	10		
IPI L+E	TL L	Dom L+E	Total TEUs	
3,312,578 <i>100%</i>			3,312,578	
1,866,821 1,445,756			1,866,821 1,445,756	
1,642,151 24%	1,917,754 28%	3,195,640 47%	6,755,545	
807,466	915,349	1,853,853	3,576,668	
807,219 247	505,585 409,764	1,004,236 849,617	2,317,040 1,259,628	
0	0	0	0	
834,685	1,002,405	1,341,787	3,178,877	
66,352	440,252	676,923	1,183,527	
752,386	7,356	3,900	763,642	
185 15,763	333,828 220,968	359,698 301,267	693,711 537,998	
0	0	0	0	

0	0	0	0	
4,954,729	1,917,754	3,195,640	10,068,123	
4,954,729	1,917,754	3,195,640	10,068,123	

DEMAND in TEUs	
On-Dock Yards Total	0/ Markat Call
On-Dock Yards BNSF Total	% Market Split
On-Dock Yards UP Total	
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total	
Hobart & Commerce Yards	
San Bernardino Yard SCIG Yard	
Additional BNSF Yard TEUs to be handled	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard	
LATC Yard Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

Scenario #2 -	Baseline 201	0 w. Project		
IPI	TL L	Dom L+E	Total TEUs	
3,312,578			3,312,578	
100%				
1,866,821			1,866,821	
1,445,756			1,445,756	
3,755,738	1,917,754	3,195,640	8,869,132	
42%	22%	36%		
2,921,053	915,349	1,853,853	5,690,255	
146,053	505,585	1,004,236	1,655,874	
0	409,764	849,617	1,259,381	
2,775,000	0	0	2,775,000	
0	0	0	0	
834,685	1,002,405	1,341,787	3,178,877	
66,352	440,252	676,923	1,183,527	
752,386	7,356	3,900	763,642	
185	333,828	359,698	693,711	
15,763	220,968	301,267	537,998	
0	0	0	0	

0	0	0	0	
7,068,316	1,917,754	3,195,640	12,181,710	
7,068,316	1,917,754	3,195,640	12,181,710	

DEMAND! TELL	
DEMAND in TEUs	
On-Dock Yards Total	
	% Market Split
On-Dock Yards BNSF Total	
On-Dock Yards UP Total	
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total	
Hobart & Commerce Yards	
San Bernardino Yard	
SCIG Yard	
Additional BNSF Yard TEUs to be handled	
LID Off Deals Venda Tetal	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

Scenario #3 -	2016 No Pi	roject		
IPI L+E	TL L	Dom L+E	Total TEUs	
5,866,291 <i>100%</i>			5,866,291	
2,933,146			2,933,146	
2,933,146			2,933,146	
1,268,463	2,770,349	4,179,682	8,218,494	
15%	34%	51%		
634,231	1,385,175	2,089,841	4,109,247	
634,231	969,622	1,462,889	3,066,742	
0	415,552	626,952	1,042,505	
0	0	0	0	
0	0	0	0	
634,231	1,385,175	2,089,841	4,109,247	
31,712	692,587	1,044,920	<i>1,769,219</i>	
602,520	0	0	<i>602,520</i>	
0	138,517	208,984	347,502	
0	554,070	835,936	1,390,006	
0	0	0	0	

0	0	0	0	
7,134,754	2,770,349	4,179,682	14,084,785	
7,134,754	2,770,349	4,179,682	14,084,785	

DEMAND! TELL	
DEMAND in TEUs	
On-Dock Yards Total	
	% Market Split
On-Dock Yards BNSF Total	
On-Dock Yards UP Total	
Off-Dock Yards Total	0/14 0
	% Market Split
BNSF Off-Dock Yards Total	
Hobart & Commerce Yards	
San Bernardino Yard	
SCIG Yard	
Additional BNSF Yard TEUs to be handled	
Additional DNSI Tara TEGS to be fighted	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed	
Total including Additional Yard Capacity Needed	
Total excluding Additional Yard Capacity Needed	

PI L+E	TL L	Dom L+E	Total TEUs
5,866,291			5,866,291
100%			
2,933,146			2,933,146
2,933,146			2,933,146
1,268,463	2,770,349	4,179,682	8,218,494
15%	34%	51%	
634,231	1,385,175	2,089,841	4,109,247
31,712	969,622	1,462,889	2,464,222
0	415,552	626,952	1,042,505
602,520	0	0	602,520
0	0	0	0
634,231	1,385,175	2,089,841	4,109,247
31,712	692,587	1,044,920	1,769,219
602,520	0	0	602,520
0	138,517	208,984	347,502
0	554,070	835,936	1,390,006
0	0	0	0

0	0	0	0	
7,134,754	2,770,349	4,179,682	14,084,785	
7,134,754	2,770,349	4,179,682	14,084,785	

DEMAND in TEUs	
On-Dock Yards Total	% Market Split
On-Dock Yards BNSF Total On-Dock Yards UP Total	70 Market Spill
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard TEUs to be handled	
UP Off-Dock Yards Total	
East L.A. Yard ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard TEUs to be handled	

ı	Total Additional Yard Capacity Needed
ı	Total including Additional Yard Capacity Needed
ı	Total excluding Additional Yard Capacity Needed

Scenario #5 - 2	2023 No Proj	iect		
IPI L+E	TL L	Dom L+E	Total TEUs	
8,276,066			8,276,066	
100%				
4,138,033			4,138,033	
4,138,033			4,138,033	
1,794,661	3,932,406	5,560,661	11,287,728	
16%	35%	49%	, - , -	
897,330	1,966,203	2,780,331	5,643,864	
897,330	1,376,342	1,946,231	4,219,904	
0	589,861	834,099	1,423,960	
0	0	0	0	
0	0	0	0	
897,330	1,966,203	2,780,331	5,643,864	
44,867	983,101	1,390,165	2,418,133	
852,464	0	0	852,464	
0	196,620	278,033	474,653	
0	786,481	1,112,132	1,898,613	
0	0	0	0	

0	0	0	0	
10,070,726	3,932,406	5,560,661	19,563,793	
10,070,726	3,932,406	5,560,661	19,563,793	

DEMAND in TEUs	
On-Dock Yards Total	0/ Markat Call
On-Dock Yards BNSF Total	% Market Split
On-Dock Yards UP Total	
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total	
Hobart & Commerce Yards	
San Bernardino Yard SCIG Yard	
Additional BNSF Yard TEUs to be handled	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard	
LATC Yard Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

I L+E	TL L	Dom L+E	Total TEUs
8,276,066			8,276,066
100%			
4,138,033			4,138,033
4,138,033			4,138,033
1,794,661	3,932,406	5,560,661	11,287,728
16%	35%	49%	
897,330	1,966,203	2,780,331	5,643,864
44,867	1,376,342	1,946,231	3,367,440
0	589,861	834,099	1,423,960
852,464	0	0	852,464
0	0	0	0
897,330	1,966,203	2,780,331	5,643,864
44,867	983,101	1,390,165	2,418,133
852,464	0	0	852,464
0	196,620	278,033	474,653
0	786,481	1,112,132	1,898,613
0	0	0	0

0	0	0	0	
10,070,726	3,932,406	5,560,661	19,563,793	
10,070,726	3,932,406	5,560,661	19,563,793	

DEMAND in TEUs	
On-Dock Yards Total	% Market Split
On-Dock Yards BNSF Total On-Dock Yards UP Total	70 Market Spill
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard TEUs to be handled	
UP Off-Dock Yards Total	
East L.A. Yard ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed	
Total including Additional Yard Capacity Needed	
Total excluding Additional Yard Capacity Needed	

I L+E	TL L	Dom L+E	Total TEUs
1,683,706			11,683,706
100%			
5,841,853			5,841,853
,841,853			5,841,853
059,494	6,162,460	8,242,338	18,464,292
22%	33%	45%	
029,747	3,081,230	4,121,169	9,232,146
,029,747	2,156,861	3,065,538	7,252,146
0	924,369	1,055,631	1,980,000
0	0	0	0
0	0	0	0
029,747	3,081,230	4,121,169	9,232,146
101,487	1,540,615	2,044,811	3,686,913
,928,260	0	0	<i>1,928,260</i>
0	308,123	608,850	916,973
0	1,232,492	1,467,508	2,700,000
0	0	0	0

DEMAND! TELL	
DEMAND in TEUs	
On-Dock Yards Total	
	% Market Split
On-Dock Yards BNSF Total	
On-Dock Yards UP Total	
Off-Dock Yards Total	0/14 0
	% Market Split
BNSF Off-Dock Yards Total	
Hobart & Commerce Yards	
San Bernardino Yard	
SCIG Yard	
Additional BNSF Yard TEUs to be handled	
Additional DNSI Tara TEGS to be fighted	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

IPI L+E	TL L	Dom L+E	Total TEUs
11,683,706			11,683,706
100%			
5,841,853			5,841,853
5,841,853			5,841,853
4,059,494	6,162,460	8,242,338	18,464,292
22%	33%	45%	
2,029,747	3,081,230	4,121,169	9,232,146
101,487	2,156,861	3,065,538	5,323,886
0	924,369	1,055,631	1,980,000
1,928,260	0	0	1,928,260
0	0	0	0
2,029,747	3,081,230	4,121,169	9,232,146
101,487	1,540,615	2,044,811	3,686,913
1,928,260	0	0	1,928,260
0	308,123	608,850	916,973
0	1,232,492	1,467,508	2,700,000
0	0	0	0

0	0	0	0	
15,743,200	6,162,460	8,242,338	30,147,998	
15,743,200	6,162,460	8,242,338	30,147,998	

DEMAND in TEUs	
On-Dock Yards Total	O/ Mankat Cult
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard TEUs to be handled	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard City of Industry Yard	
LATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed	
Total including Additional Yard Capacity Needed	
Total excluding Additional Yard Capacity Needed	

Scenario #8b - 2035 w. Project (BNSF Higher IPI Share)				
IPI L+E	TL L	Dom L+E	Total TEUs	
11,683,706			11,683,706	
100%			5.044.050	
5,841,853			5,841,853	
5,841,853			5,841,853	
4,059,494	6,162,460	8,242,338	18,464,292	
22%	33%	45%		
2,921,053	3,081,230	4,121,169	10,123,452	
146,053	2,156,861	3,065,538	5,368,452	
0	924,369	1,055,631	1,980,000	
2,775,000	0	0	2,775,000	
0	0	0	0	
1,138,441	3,081,230	4,121,169	8,340,840	
56,922	1,540,615	2,117,079	3,714,616	
1,081,519	0	0	1,081,519	
0	308,123	536,582	844,705	
0	1,232,492	1,467,508	2,700,000	
0	0	0	0	

0	0	0	0	
15,743,200	6,162,460	8,242,338	30,147,998	
15,743,200	6,162,460	8,242,338	30,147,998	

DEMAND in TEUs	
On-Dock Yards Total	% Market Split
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total	
Hobart & Commerce Yards San Bernardino Yard	
SCIG Yard	
Additional BNSF Yard TEUs to be handled	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard City of Industry Yard	
LATC Yard	
Additional UP Yard TEUs to be handled	

ı	Total Additional Yard Capacity Needed		
ı	Total including Additional Yard Capacity Needed		
ı	Total excluding Additional Yard Capacity Needed		

Scenario #9 - 2046 No Project				
IPI L+E	TL L	Dom L+E	Total TEUs	
11,683,706			11,683,706	
100%				
5,841,853			5,841,853	
5,841,853			5,841,853	
4.050.404		0.700.070	10.051.000	
4,059,494	6,162,460	8,729,369	18,951,323	
21%	33%	46%		
2,029,747	3,081,230	4,364,684	9,475,661	
2,029,747	2,156,861	3,309,053	7,495,661	
0	924,369	1,055,631	1,980,000	
0	0	0	0	
0	0	0	0	
2,029,747	3,081,230	4,364,684	9,475,661	
101,487	1,540,615	2,044,811	3,686,913	
	1,540,015	2,044,011		
1,928,260	200 122	0E2 244	1,928,260 1 140 400	
0	308,123	852,366	1,160,489	
0	1,232,492	1,467,508	2,700,000	
0	0	0	0	

0	0	0	0	
15,743,200	6,162,460	8,729,369	30,635,029	
15,743,200	6,162,460	8,729,369	30,635,029	

DEMAND in TEUs	
On-Dock Yards Total	
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard TEUs to be handled	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard LATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

Scenario #10a	- 2046 w. Pr	oject (Equal	I BNSF-UP IPI Share)
IPI L+E	TL L	Dom L+E	Total TEUs
11,683,706			11,683,706
100%			
5,841,853			<i>5,841,853</i>
5,841,853			5,841,853
4,059,494	6,162,460	8,729,369	18,951,323
21%	33%	46%	
2,029,747	3,081,230	4,364,684	9,475,661
101,487	2,156,861	3,309,053	5,567,402
0	924,369	1,055,631	1,980,000
1,928,260	0	0	1,928,260
0	0	0	0
2,029,747	3,081,230	4,364,684	9,475,661
101,487	1,540,615	2,044,811	3,686,913
1,928,260	0	0	1,928,260
0	308,123	852,366	1,160,489
0	1,232,492	1,467,508	2,700,000
0	0	0	0

DEMAND! TELL	
DEMAND in TEUs	
On-Dock Yards Total	
	% Market Split
On-Dock Yards BNSF Total	
On-Dock Yards UP Total	
Off-Dock Yards Total	0/14 0
	% Market Split
BNSF Off-Dock Yards Total	
Hobart & Commerce Yards	
San Bernardino Yard	
SCIG Yard	
Additional BNSF Yard TEUs to be handled	
Additional DNSI Tara TEGS to be harriated	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

enario #10b	- 2046 w. Pr	oject (BIVSF	Higher IPI Share)
IPI L+E	TL L	Dom L+E	Total TEUs
11,683,706 100%			11,683,706
5,841,853			5,841,853
5,841,853			5,841,853
4,059,494	6,162,460	8,729,369	18,951,323
21%	33%	46%	
2,921,053	3,081,230	4,364,684	10,366,967
146,053	2,156,861	3,309,053	5,611,967
0	924,369	1,055,631	1,980,000
2,775,000	0	0	2,775,000
0	0	0	0
1,138,441	3,081,230	4,364,684	8,584,356
56,922	1,540,615	2,117,079	3,714,616
1,081,519	0	0	1,081,519
0	308,123	780,098	1,088,221
0	1,232,492	1,467,508	2,700,000
0	0	0	0

0	0	0	0	
15,743,200	6,162,460	8,729,369	30,635,029	
15,743,200	6,162,460	8,729,369	30,635,029	

DEMAND in TEUs	
On-Dock Yards Total	% Market Split
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total	
Hobart & Commerce Yards San Bernardino Yard	
SCIG Yard	
Additional BNSF Yard TEUs to be handled	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard City of Industry Yard	
LATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

Y L+E	TL L	Dom L+E	Total TEUs
,117,834			7,117,834
100%			
3,558,917			3,558,917
,558,917			3,558,917
,612,966	3,399,900	4,930,446	9,943,313
16%	34%	50%	
806,483	1,699,950	2,465,223	4,971,656
806,483	1,189,965	1,725,656	3,722,104
0	509,985	739,567	1,249,552
0	0	0	0
0	0	0	0
806,483	1,699,950	2,465,223	4,971,656
40,324	849,975	1,232,612	2,122,911
766,159	0	0	766,159
0	169,995	246,522	416,517
0	679,980	986,089	1,666,069
0	0	0	0

0	0	0	0	
8,730,800	3,399,900	4,930,446	17,061,146	
8,730,800	3,399,900	4,930,446	17,061,146	

DEMAND in TEUs	
On-Dock Yards Total	O/ Manhad Call
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard TEUs to be handled	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard LATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

Scenario #12 - 2020 w. Project						
IPI L+E	TL L	Dom L+E	Total TEUs			
7,117,834 <i>100%</i>			7,117,834			
3,558,917			3,558,917			
3,558,917			3,558,917			
1,612,966	3,399,900	4,930,446	9,943,313			
16%	34%	50%				
806,483	1,699,950	2,465,223	4,971,656			
40,324	1,189,965	1,725,656	2,955,945			
0	509,985	739,567	1,249,552			
766,159	0	0	766,159			
0	0	0	0			
806,483	1,699,950	2,465,223	4,971,656			
40,324	849,975	1,232,612	2,122,911			
766,159	0	0	766,159			
0	169,995	246,522	416,517			
0	679,980	986,089	1,666,069			
0	0	0	0			

١	0	0	0	0	
١	8,730,800	3,399,900	4,930,446	17,061,146	
١	8,730,800	3,399,900	4,930,446	17,061,146	

DEMAND in TEUs	
On-Dock Yards Total	O/ Mankat Cult
On-Dock Yards BNSF Total On-Dock Yards UP Total	% Market Split
Off-Dock Yards Total	
	% Market Split
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard TEUs to be handled	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard City of Industry Yard	
I ATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed	
Total including Additional Yard Capacity Needed	
Total excluding Additional Yard Capacity Needed	

Scenario #13 -	2030 No Pro	oject		
IPI L+E	TL L	Dom L+E	Total TEUs	
10,951,946			10,951,946	
100%				
5,475,973			<i>5,475,973</i>	
5,475,973			5,475,973	
2,873,254	5,411,700	7,293,339	15,578,293	
18%	35%	47%		
1,436,627	2,705,850	3,646,670	7,789,147	
1,436,627	1,894,095	2,552,669	5,883,391	
0	811,755	1,094,001	1,905,756	
0	0	0	0	
0	0	0	0	
1,436,627	2,705,850	3,646,670	7,789,147	
71,831	1,352,925	1,823,335	3,248,091	
1,364,796	0	0	1,364,796	
0	270,585	364,667	635,252	
0	1,082,340	1,458,668	2,541,008	
0	0	0	0	

0	0	0	0
13,825,200	5,411,700	7,293,339	26,530,239
13,825,200	5,411,700	7,293,339	26,530,239

DEMAND! TELL	
DEMAND in TEUs	
On-Dock Yards Total	
	% Market Split
On-Dock Yards BNSF Total	
On-Dock Yards UP Total	
Off-Dock Yards Total	0/14 0
	% Market Split
BNSF Off-Dock Yards Total	
Hobart & Commerce Yards	
San Bernardino Yard	
SCIG Yard	
Additional BNSF Yard TEUs to be handled	
Additional DNSI Tara TEGS to be fighted	
UP Off-Dock Yards Total	
East L.A. Yard	
ICTF Yard	
City of Industry Yard	
LATC Yard	
Additional UP Yard TEUs to be handled	

Total Additional Yard Capacity Needed
Total including Additional Yard Capacity Needed
Total excluding Additional Yard Capacity Needed

PI L+E	TL L	Dom L+E	Total TEUs
10,951,946			10,951,946
100%			
5,475,973			5,475,973
5,475,973			5,475,973
2,873,254	5,411,700	7,293,339	15,578,293
18%	35%	47%	
1,436,627	2,705,850	3,646,670	7,789,147
71,831	1,894,095	2,552,669	4,518,595
0	811,755	1,094,001	1,905,756
1,364,796	0	0	1,364,796
0	0	0	0
1,436,627	2,705,850	3,646,670	7,789,147
71,831	1,352,925	1,823,335	3,248,091
1,364,796	0	0	1,364,796
0	270,585	364,667	<i>635,252</i>
0	1,082,340	1,458,668	2,541,008
0	0	0	0

0	0	0	0
13,825,200	5,411,700	7,293,339	26,530,239
13,825,200	5,411,700	7,293,339	26,530,239

SCIG Scenarios Trains Data from Train Builder Intermodal Rail Analysis Module embedded in Quick Trip - Train Builder Integrated Model Prepared for the Port of Los Angeles by Cambridge Systematics on August 13, 2012

	Scenario #1 - Baseline 2010																				
	ΙP	I L+E					TL L					Dom L+	E				Total				
IM Trains		12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal		0.0	6.6	8.8	6.6	22.1											0.0	6.6	8.8	6.6	22.1
On-Dock Yards BNSF Total On-Dock Yards UP Total		0.0	3.7 2.9	5.0 3.9	3.7 2.9	12.5 9.6											0.0 0.0	3.7 2.9	5.0 3.9	3.7 2.9	12.5 9.6
Off-Dock Yards Total		0.0	3.3	4.4	3.3	11.0	0.0	3.8	4.7	0.9	9.4	0.0	4.4	12.0	4.3	20.7	0.0	11.4	21.1	8.5	41.1
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed		0.0 0.0 0.0 0.0 0.0	1.6 1.6 0.0 0.0 0.0	2.2 2.2 0.0 0.0 0.0	1.6 1.6 0.0 0.0 0.0	5.4 5.4 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	1.8 1.0 0.8 0.0 0.0	2.3 1.2 1.0 0.0 0.0	0.5 0.2 0.2 0.0 0.0	4.5 2.5 2.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	2.1 1.1 1.0 0.0 0.0	8.0 4.4 3.6 0.0 0.0	3.2 1.8 1.4 0.0 0.0	13.3 7.3 6.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	5.5 3.7 1.8 0.0 0.0	12.4 7.8 4.6 0.0 0.0	5.3 3.6 1.6 0.0 0.0	23.2 15.2 8.0 0.0 0.0
UP Off-Dock Yards Total East L.A. Yard ICTF Yard City of Industry Yard LATC Yard Additional UP Yard Capacity Needed		0.0 0.0 0.0 0.0 0.0 0.0	1.7 0.1 1.5 0.0 0.0	2.2 0.2 2.0 0.0 0.0 0.0	1.7 0.1 1.5 0.0 0.0	5.6 0.4 5.0 0.0 0.1 0.0	0.0 0.0 0.0 0.0 0.0 0.0	2.0 0.9 0.0 0.7 0.4 0.0	2.5 1.1 0.0 0.8 0.5 0.0	0.5 0.2 0.0 0.2 0.1 0.0	4.9 2.2 0.0 1.6 1.1 0.0	0.0 0.0 0.0 0.0 0.0 0.0	2.3 1.2 0.0 0.7 0.4 0.0	4.0 2.0 0.0 0.9 1.1 0.0	1.1 0.5 0.0 0.2 0.4 0.0	7.4 3.7 0.0 1.8 1.9 0.0	0.0 0.0 0.0 0.0 0.0 0.0	6.0 2.2 1.5 1.4 0.9 0.0	8.7 3.3 2.0 1.7 1.7 0.0	3.3 0.9 1.5 0.4 0.5 0.0	17.9 6.3 5.0 3.5 3.1 0.0
All Rail Yards Total		0.0	9.9	13.2	9.9	33.1	0.0	3.8	4.7	0.9	9.4	0.0	4.4	12.0	4.3	20.7	0.0	18.1	29.9	15.2	63.2

	Scena	rio #2	- Base	line 2	010 w. 2	035 BN	SF vol	umes												
	IPI L+E					TL L					Dom L	+E				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	6.6	8.8	6.6	22.1											0.0	6.6	8.8	6.6	22.1
On-Dock Yards BNSF Total On-Dock Yards UP Total	0.0	3.7 2.9	5.0 3.9	3.7 2.9	12.5 9.6											0.0	3.7 2.9	5.0 3.9	3.7 2.9	12.5 9.6
Off-Dock Yards Total	0.0	1.9	18.8	1.7	22.4	0.0	3.8	4.7	0.9	9.4	0.0	4.4	12.0	4.3	20.7	0.0	10.1	35.5	6.9	52.5
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard	0.0 0.0 0.0	0.3 0.3 0.0	16.6 0.6 0.0	0.0 0.0 0.0	16.8 0.8 0.0	0.0 0.0 0.0	1.8 1.0 0.8	2.3 1.2 1.0	0.5 0.2 0.2	4.5 2.5 2.0	0.0 0.0 0.0	2.1 1.1 1.0	8.0 4.4 3.6	3.2 1.8 1.4	13.3 7.3 6.0	0.0 0.0 0.0	4.1 2.4 1.8	26.8 6.2 4.6	3.6 2.0 1.6	34.6 10.6 8.0
SCIG Yard Additional BNSF Yard Capacity Needed	0.0	0.0	16.0 0.0	0.0	16.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0 0.0	0.0	16.0 0.0
UP Off-Dock Yards Total East L.A. Yard ICTF Yard City of Industry Yard LATC Yard Additional UP Yard Capacity Needed	0.0 0.0 0.0 0.0 0.0 0.0	1.7 0.1 1.5 0.0 0.0	2.2 0.2 2.0 0.0 0.0 0.0	1.7 0.1 1.5 0.0 0.0	5.6 0.4 5.0 0.0 0.1 0.0	0.0 0.0 0.0 0.0 0.0 0.0	2.0 0.9 0.0 0.7 0.4 0.0	2.5 1.1 0.0 0.8 0.5 0.0	0.5 0.2 0.0 0.2 0.1 0.0	4.9 2.2 0.0 1.6 1.1 0.0	0.0 0.0 0.0 0.0 0.0 0.0	2.3 1.2 0.0 0.7 0.4 0.0	4.0 2.0 0.0 0.9 1.1 0.0	1.1 0.5 0.0 0.2 0.4 0.0	7.4 3.7 0.0 1.8 1.9 0.0	0.0 0.0 0.0 0.0 0.0 0.0	6.0 2.2 1.5 1.4 0.9 0.0	8.7 3.3 2.0 1.7 1.7 0.0	3.3 0.9 1.5 0.4 0.5 0.0	17.9 6.3 5.0 3.5 3.1 0.0
All Rail Yards Total	0.0	8.6	27.6	8.3	44.5	0.0	3.8	4.7	0.9	9.4	0.0	4.4	12.0	4.3	20.7	0.0	16.7	44.3	13.5	74.6

	Scen	ario #	3 - 201	6 No	Project															
	IPI L+	E				TL L					Dom L	.+E				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	11.0	22.3	0.0	33.3											0.0	11.0	22.3	0.0	33.3
On-Dock Yards BNSF Total	0.0	5.5	11.1	0.0	16.6											0.0	5.5	11.1	0.0	16.6
On-Dock Yards UP Total	0.0	5.5	11.1	0.0	16.6											0.0	5.5	11.1	0.0	16.6
Off-Dock Yards Total	0.0	2.4	4.8	0.0	7.2	6.5	3.2	0.0	0.0	9.6	0.0	6.3	12.8	0.0	19.2	6.5	11.9	17.7	0.0	36.0
BNSF Off-Dock Yards Total	0.0	1.2	2.4	0.0	3.6	3.2	1.6	0.0	0.0	4.8	0.0	3.2	6.4	0.0	9.6	3.2	5.9	8.8	0.0	18.0
Hobart & Commerce Yards	0.0	1.2	2.4	0.0	3.6	2.3	1.1	0.0	0.0	3.4	0.0	2.2	4.5	0.0	6.7	2.3	4.5	6.9	0.0	13.7
San Bernardino Yard	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0	1.4	0.0	0.9	1.9	0.0	2.9	1.0	1.4	1.9	0.0	4.3
SCIG Yard	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Additional BNSF Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UP Off-Dock Yards Total	0.0	1.2	2.4	0.0	3.6	3.2	1.6	0.0	0.0	4.8	0.0	3.2	6.4	0.0	9.6	3.2	5.9	8.8	0.0	18.0
East L.A. Yard	0.0	0.1	0.1	0.0	0.2	1.6	8.0	0.0	0.0	2.4	0.0	1.6	3.2	0.0	4.8	1.6	2.4	3.3	0.0	7.4
ICTF Yard	0.0	1.1	2.3	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	0.0	3.4
City of Industry Yard	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.5	0.0	0.3	0.6	0.0	1.0	0.3	0.5	0.6	0.0	1.4
LATC Yard	0.0	0.0	0.0	0.0	0.0	1.3	0.6	0.0	0.0	1.9	0.0	1.3	2.6	0.0	3.8	1.3	1.9	2.6	0.0	5.8
Additional UP Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Rail Yards Total	0.0	13.4	27.1	0.0	40.5	6.5	3.2	0.0	0.0	9.6	0.0	6.3	12.8	0.0	19.2	6.5	22.9	39.9	0.0	69.3

	Scena	rio #4 ·	- 2016 v	v. Pro	iect															
	IPI L+E T					TL L					Dom L+	ŀΕ				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	11.0	22.3	0.0	33.3											0.0	11.0	22.3	0.0	33.3
On-Dock Yards BNSF Total	0.0	5.5	11.1	0.0	16.6											0.0	5.5	11.1	0.0	16.6
On-Dock Yards UP Total	0.0	5.5	11.1	0.0	16.6											0.0	5.5	11.1	0.0	16.6
Off-Dock Yards Total	0.0	1.2	6.2	0.0	7.5	6.5	3.2	0.0	0.0	9.6	0.0	6.3	12.8	0.0	19.2	6.5	10.8	19.1	0.0	36.3
BNSF Off-Dock Yards Total	0.0	0.1	3.8	0.0	3.9	3.2	1.6	0.0	0.0	4.8	0.0	3.2	6.4	0.0	9.6	3.2	4.8	10.2	0.0	18.3
Hobart & Commerce Yards	0.0	0.1	0.1	0.0	0.2	2.3	1.1	0.0	0.0	3.4	0.0	2.2	4.5	0.0	6.7	2.3	3.4	4.6	0.0	10.3
San Bernardino Yard	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0	1.4	0.0	0.9	1.9	0.0	2.9	1.0	1.4	1.9	0.0	4.3
SCIG Yard	0.0	0.0	3.7	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	3.7
Additional BNSF Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UP Off-Dock Yards Total	0.0	1.2	2.4	0.0	3.6	3.2	1.6	0.0	0.0	4.8	0.0	3.2	6.4	0.0	9.6	3.2	5.9	8.8	0.0	18.0
East L.A. Yard	0.0	0.1	0.1	0.0	0.2	1.6	8.0	0.0	0.0	2.4	0.0	1.6	3.2	0.0	4.8	1.6	2.4	3.3	0.0	7.4
ICTF Yard	0.0	1.1	2.3	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	0.0	3.4
City of Industry Yard	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.5	0.0	0.3	0.6	0.0	1.0	0.3	0.5	0.6	0.0	1.4
LATC Yard	0.0	0.0	0.0	0.0	0.0	1.3	0.6	0.0	0.0	1.9	0.0	1.3	2.6	0.0	3.8	1.3	1.9	2.6	0.0	5.8
Additional UP Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Rail Yards Total	0.0	12.2	28.5	0.0	40.8	6.5	3.2	0.0	0.0	9.6	0.0	6.3	12.8	0.0	19.2	6.5	21.7	41.4	0.0	69.6

	S	Scenari	io #5 - 2	2023 No	Proje	ct															
	IF	PI L+E					TL L					Dom L+	E				Total				
IM Trains		12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal		0.0	15.5	31.4	0.0	46.9											0.0	15.5	31.4	0.0	46.9
On-Dock Yards BNSF Total On-Dock Yards UP Total		0.0	7.7 7.7	15.7 15.7	0.0	23.5 23.5											0.0 0.0	7.7 7.7	15.7 15.7	0.0	23.5 23.5
Off-Dock Yards Total		0.0	3.4	6.8	0.0	10.2	9.2	4.5	0.0	0.0	13.7	0.0	8.4	17.1	0.0	25.5	9.2	16.3	23.9	0.0	49.4
BNSF Off-Dock Yards Total Hobart & Commerce Yards		0.0 0.0	1.7 1.7	3.4 3.4	0.0 0.0	5.1 5.1	4.6 3.2	2.3 1.6	0.0 0.0	0.0 0.0	6.8 4.8	0.0 0.0	4.2 2.9	8.5 6.0	0.0 0.0	12.7 8.9	4.6 3.2	8.1 6.2	11.9 9.4	0.0	24.7 18.8
San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed		0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	1.4 0.0 0.0	0.7 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	2.1 0.0 0.0	0.0 0.0 0.0	1.3 0.0 0.0	2.6 0.0 0.0	0.0 0.0 0.0	3.8 0.0 0.0	1.4 0.0 0.0	1.9 0.0 0.0	2.6 0.0 0.0	0.0 0.0 0.0	5.9 0.0 0.0
UP Off-Dock Yards Total East L.A. Yard		0.0	1.7	3.4 0.2	0.0	5.1 0.3	4.6 2.3	2.3 1.1	0.0	0.0	6.8	0.0	4.2 2.1	8.5 4.3	0.0	12.7 6.4	4.6 2.3	8.1 3.3	11.9 4.4	0.0	24.7 10.0
ICTF Yard City of Industry Yard		0.0	1.6 0.0	3.2 0.0	0.0 0.0	4.8 0.0	0.0 0.5	0.0	0.0 0.0	0.0 0.0	0.0 0.7	0.0	0.0 0.4	0.0 0.9	0.0 0.0	0.0	0.0 0.5	1.6 0.6	3.2 0.9	0.0	4.8 2.0
LATC Yard Additional UP Yard Capacity Needed		0.0	0.0	0.0	0.0	0.0 0.0	1.8 0.0	0.9 0.0	0.0	0.0	2.7 0.0	0.0	1.7 0.0	3.4 0.0	0.0	5.1 0.0	1.8 0.0	2.6 0.0	3.4 0.0	0.0	7.8 0.0
All Rail Yards Total	L	0.0	18.8	38.3	0.0	57.1	9.2	4.5	0.0	0.0	13.7	0.0	8.4	17.1	0.0	25.5	9.2	31.8	55.3	0.0	96.3

	Scena	rio #6	- 2023	w. Pr	oject															
	IPI L+E					TL L					Dom L	+E				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	15.5	31.4	0.0	46.9											0.0	15.5	31.4	0.0	46.9
On-Dock Yards BNSF Total On-Dock Yards UP Total	0.0 0.0	7.7 7.7	15.7 15.7	0.0	23.5 23.5											0.0 0.0	7.7 7.7	15.7 15.7	0.0	23.5 23.5
Off-Dock Yards Total	0.0	1.8	8.8	0.0	10.6	9.2	4.5	0.0	0.0	13.7	0.0	8.4	17.1	0.0	25.5	9.2	14.7	25.9	0.0	49.8
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	0.0 0.0 0.0 0.0 0.0	0.1 0.1 0.0 0.0 0.0	5.4 0.2 0.0 5.2 0.0	0.0 0.0 0.0 0.0 0.0	5.5 0.3 0.0 5.2 0.0	4.6 3.2 1.4 0.0 0.0	2.3 1.6 0.7 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	6.8 4.8 2.1 0.0 0.0	0.0 0.0 0.0 0.0 0.0	4.2 2.9 1.3 0.0 0.0	8.5 6.0 2.6 0.0 0.0	0.0 0.0 0.0 0.0 0.0	12.7 8.9 3.8 0.0 0.0	4.6 3.2 1.4 0.0 0.0	6.5 4.6 1.9 0.0 0.0	14.0 6.1 2.6 5.2 0.0	0.0 0.0 0.0 0.0 0.0	25.1 14.0 5.9 5.2 0.0
UP Off-Dock Yards Total East L.A. Yard ICTF Yard City of Industry Yard LATC Yard Additional UP Yard Capacity Needed	0.0 0.0 0.0 0.0 0.0 0.0	1.7 0.1 1.6 0.0 0.0	3.4 0.2 3.2 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	5.1 0.3 4.8 0.0 0.0 0.0	4.6 2.3 0.0 0.5 1.8 0.0	2.3 1.1 0.0 0.2 0.9 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	6.8 3.4 0.0 0.7 2.7 0.0	0.0 0.0 0.0 0.0 0.0 0.0	4.2 2.1 0.0 0.4 1.7 0.0	8.5 4.3 0.0 0.9 3.4 0.0	0.0 0.0 0.0 0.0 0.0 0.0	12.7 6.4 0.0 1.3 5.1 0.0	4.6 2.3 0.0 0.5 1.8 0.0	8.1 3.3 1.6 0.6 2.6 0.0	11.9 4.4 3.2 0.9 3.4 0.0	0.0 0.0 0.0 0.0 0.0 0.0	24.7 10.0 4.8 2.0 7.8 0.0
All Rail Yards Total	0.0	17.3	40.3	0.0	57.5	9.2	4.5	0.0	0.0	13.7	0.0	8.4	17.1	0.0	25.5	9.2	30.2	57.3	0.0	96.7

	Scen	ario #	7 - 203	5 No	Project															
	IPI L+I	Ε				TL L					Dom L	.+E				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	21.9	44.4	0.0	66.3											0.0	21.9	44.4	0.0	66.3
On-Dock Yards BNSF Total	0.0	10.9	22.2	0.0	33.1											0.0	10.9	22.2	0.0	33.1
On-Dock Yards UP Total	0.0	10.9	22.2	0.0	33.1											0.0	10.9	22.2	0.0	33.1
Off-Dock Yards Total	0.0	7.6	15.4	0.0	23.0	14.4	7.1	0.0	0.0	21.5	0.0	12.5	25.3	0.0	37.8	14.4	27.1	40.7	0.0	82.3
BNSF Off-Dock Yards Total	0.0	3.8	7.7	0.0	11.5	7.2	3.5	0.0	0.0	10.7	0.0	6.2	12.7	0.0	18.9	7.2	13.6	20.4	0.0	41.1
Hobart & Commerce Yards San Bernardino Yard	0.0	3.8 0.0	7.7 0.0	0.0	11.5 0.0	5.0 2.2	2.5 1.1	0.0	0.0	7.5 3.2	0.0	4.6 1.6	9.4 3.2	0.0	14.0 4.8	5.0 2.2	10.9 2.7	17.1 3.2	0.0	33.1 8.1
SCIG Yard	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Additional BNSF Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UP Off-Dock Yards Total	0.0	3.8	7.7	0.0	11.5	7.2	3.5	0.0	0.0	10.7	0.0	6.2	12.7	0.0	18.9	7.2	13.6	20.4	0.0	41.1
East L.A. Yard	0.0	0.2	0.4	0.0	0.6	3.6	1.8	0.0	0.0	5.4	0.0	3.1	6.3	0.0	9.4	3.6	5.1	6.7	0.0	15.3
ICTF Yard	0.0	3.6	7.3	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	0.0	10.9
City of Industry Yard LATC Yard	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.0	1.1	0.0	0.9	1.9	0.0	2.8 6.7	0.7	1.3	1.9	0.0	3.9
Additional UP Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0 0.0	2.9 0.0	1.4 0.0	0.0	0.0	4.3 0.0	0.0	2.2 0.0	4.5 0.0	0.0	0.0	2.9 0.0	3.6 0.0	4.5 0.0	0.0	11.0 0.0
All Rail Yards Total	0.0	29.5	59.8	0.0	89.3	14.4	7.1	0.0	0.0	21.5	0.0	12.5	25.3	0.0	37.8	14.4	49.0	85.1	0.0	148.5

	Scena	rio #8a	- 2035	w. Pr	oject (Eq	ual BN	SF-UP	IPI Sha	re)											
	IPI L+E					TL L					Dom L+	ŀΕ				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	21.9	44.4	0.0	66.3											0.0	21.9	44.4	0.0	66.3
On-Dock Yards BNSF Total	0.0	10.9	22.2	0.0	33.1											0.0	10.9	22.2	0.0	33.1
On-Dock Yards UP Total	0.0	10.9	22.2	0.0	33.1											0.0	10.9	22.2	0.0	33.1
Off-Dock Yards Total	0.0	4.0	20.0	0.0	24.0	14.4	7.1	0.0	0.0	21.5	0.0	12.5	25.3	0.0	37.8	14.4	23.5	45.3	0.0	83.2
BNSF Off-Dock Yards Total	0.0	0.2	12.3	0.0	12.4	7.2	3.5	0.0	0.0	10.7	0.0	6.2	12.7	0.0	18.9	7.2	10.0	24.9	0.0	42.1
Hobart & Commerce Yards	0.0	0.2	0.4	0.0	0.6	5.0	2.5	0.0	0.0	7.5	0.0	4.6	9.4	0.0	14.0	5.0	7.3	9.8	0.0	22.1
San Bernardino Yard	0.0	0.0	0.0	0.0	0.0	2.2	1.1	0.0	0.0	3.2	0.0	1.6	3.2	0.0	4.8	2.2	2.7	3.2	0.0	8.1
SCIG Yard	0.0	0.0	11.9	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.0	11.9
Additional BNSF Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UP Off-Dock Yards Total	0.0	3.8	7.7	0.0	11.5	7.2	3.5	0.0	0.0	10.7	0.0	6.2	12.7	0.0	18.9	7.2	13.6	20.4	0.0	41.1
East L.A. Yard	0.0	0.2	0.4	0.0	0.6	3.6	1.8	0.0	0.0	5.4	0.0	3.1	6.3	0.0	9.4	3.6	5.1	6.7	0.0	15.3
ICTF Yard	0.0	3.6	7.3	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	0.0	10.9
City of Industry Yard	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.0	1.1	0.0	0.9	1.9	0.0	2.8	0.7	1.3	1.9	0.0	3.9
LATC Yard	0.0	0.0	0.0	0.0	0.0	2.9	1.4	0.0	0.0	4.3	0.0	2.2	4.5	0.0	6.7	2.9	3.6	4.5	0.0	11.0
Additional UP Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Rail Yards Total	0.0	25.9	64.4	0.0	90.2	14.4	7.1	0.0	0.0	21.5	0.0	12.5	25.3	0.0	37.8	14.4	45.4	89.7	0.0	149.4

	Sc	enari	io #8b -	· 2035 и	. Proje	ect (BNSF	Higher	IPI Sha	re)												
	ΙΡΙ	L+E					TL L					Dom L+	E				Total				
IM Trains	1	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal		0.0	21.9	44.4	0.0	66.3											0.0	21.9	44.4	0.0	66.3
On-Dock Yards BNSF Total On-Dock Yards UP Total		0.0	10.9 10.9	22.2 22.2	0.0	33.1 33.1											0.0	10.9 10.9	22.2 22.2	0.0	33.1 33.1
Off-Dock Yards Total		0.0	2.4	20.9	0.0	23.3	14.4	7.1	0.0	0.0	21.5	0.0	12.5	25.3	0.0	37.8	14.4	22.0	46.2	0.0	82.5
BNSF Off-Dock Yards Total		0.0	0.3	16.6	0.0	16.8	7.2	3.5	0.0	0.0	10.7	0.0	6.2	12.7	0.0	18.9	7.2	10.0	29.2	0.0	46.4
Hobart & Commerce Yards San Bernardino Yard		0.0 0.0	0.3 0.0	0.6 0.0	0.0 0.0	0.8 0.0	5.0 2.2	2.5 1.1	0.0	0.0	7.5 3.2	0.0	4.6 1.6	9.4 3.2	0.0	14.0 4.8	5.0 2.2	7.4 2.7	10.0 3.2	0.0 0.0	22.4 8.1
SCIG Yard Additional BNSF Yard Capacity Needed		0.0	0.0	16.0 0.0	0.0	16.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	16.0 0.0	0.0	16.0 0.0
UP Off-Dock Yards Total		0.0	2.1	4.3	0.0	6.5	7.2	3.5	0.0	0.0	10.7	0.0	6.2	12.7	0.0	18.9	7.2	11.9	17.0	0.0	36.1
East L.A. Yard ICTF Yard		0.0	0.1 2.0	0.2 4.1	0.0	0.3 6.1	3.6 0.0	1.8 0.0	0.0 0.0	0.0	5.4 0.0	0.0	3.2 0.0	6.5 0.0	0.0	9.7 0.0	3.6 0.0	5.1 2.0	6.7 4.1	0.0	15.4 6.1
City of Industry Yard LATC Yard		0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.7 2.9	0.4 1.4	0.0 0.0	0.0	1.1 4.3	0.0	0.8 2.2	1.6 4.5	0.0	2.5 6.7	0.7 2.9	1.2 3.6	1.6 4.5	0.0	3.5 11.0
Additional UP Yard Capacity Needed		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Rail Yards Total		0.0	24.3	65.3	0.0	89.5	14.4	7.1	0.0	0.0	21.5	0.0	12.5	25.3	0.0	37.8	14.4	43.8	90.6	0.0	148.8

	Scena	rio #9	- 2046	No Pr	oject															
	IPI L+E					TL L					Dom L-	+E				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	21.9	44.4	0.0	66.3											0.0	21.9	44.4	0.0	66.3
On-Dock Yards BNSF Total On-Dock Yards UP Total	0.0 0.0	10.9 10.9	22.2 22.2	0.0	33.1 33.1											0.0 0.0	10.9 10.9	22.2 22.2	0.0	33.1 33.1
Off-Dock Yards Total	0.0	7.6	15.4	0.0	23.0	14.4	7.1	0.0	0.0	21.5	0.0	13.2	26.8	0.0	40.0	14.4	27.9	42.2	0.0	84.5
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard SCIG Yard Additional BNSF Yard Capacity Needed	0.0 0.0 0.0 0.0 0.0	3.8 3.8 0.0 0.0 0.0	7.7 7.7 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	11.5 11.5 0.0 0.0 0.0	7.2 5.0 2.2 0.0 0.0	3.5 2.5 1.1 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	10.7 7.5 3.2 0.0 0.0	0.0 0.0 0.0 0.0 0.0	6.6 5.0 1.6 0.0 0.0	13.4 10.2 3.2 0.0 0.0	0.0 0.0 0.0 0.0 0.0	20.0 15.2 4.8 0.0 0.0	7.2 5.0 2.2 0.0 0.0	13.9 11.3 2.7 0.0 0.0	21.1 17.9 3.2 0.0 0.0	0.0 0.0 0.0 0.0 0.0	42.2 34.2 8.1 0.0 0.0
UP Off-Dock Yards Total East L.A. Yard ICTF Yard City of Industry Yard LATC Yard Additional UP Yard Capacity Needed	0.0 0.0 0.0 0.0 0.0 0.0	3.8 0.2 3.6 0.0 0.0 0.0	7.7 0.4 7.3 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	11.5 0.6 10.9 0.0 0.0	7.2 3.6 0.0 0.7 2.9 0.0	3.5 1.8 0.0 0.4 1.4 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	10.7 5.4 0.0 1.1 4.3 0.0	0.0 0.0 0.0 0.0 0.0 0.0	6.6 3.1 0.0 1.3 2.2 0.0	13.4 6.3 0.0 2.6 4.5 0.0	0.0 0.0 0.0 0.0 0.0 0.0	20.0 9.4 0.0 3.9 6.7 0.0	7.2 3.6 0.0 0.7 2.9 0.0	13.9 5.1 3.6 1.6 3.6 0.0	21.1 6.7 7.3 2.6 4.5 0.0	0.0 0.0 0.0 0.0 0.0 0.0	42.2 15.3 10.9 5.0 11.0 0.0
All Rail Yards Total	0.0	29.5	59.8	0.0	89.3	14.4	7.1	0.0	0.0	21.5	0.0	13.2	26.8	0.0	40.0	14.4	49.7	86.6	0.0	150.7

	Scen	ario #1	10a - 2	046 v	v. Projed	t (Equ	al BN	SF-UF	IPI S	Share)										
	IPI L+I					TL L					Dom L	.+E				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	21.9	44.4	0.0	66.3											0.0	21.9	44.4	0.0	66.3
On-Dock Yards BNSF Total	0.0	10.9	22.2	0.0	33.1											0.0	10.9	22.2	0.0	33.1
On-Dock Yards UP Total	0.0	10.9	22.2	0.0	33.1											0.0	10.9	22.2	0.0	33.1
Off-Dock Yards Total	0.0	4.0	20.0	0.0	24.0	14.4	7.1	0.0	0.0	21.5	0.0	13.2	26.8	0.0	40.0	14.4	24.3	46.8	0.0	85.4
BNSF Off-Dock Yards Total	0.0	0.2	12.3	0.0	12.4	7.2	3.5	0.0	0.0	10.7	0.0	6.6	13.4	0.0	20.0	7.2	10.3	25.7	0.0	43.2
Hobart & Commerce Yards	0.0	0.2	0.4	0.0	0.6	5.0	2.5	0.0	0.0	7.5	0.0	5.0	10.2	0.0	15.2	5.0	7.7	10.5	0.0	23.3
San Bernardino Yard	0.0	0.0	0.0	0.0	0.0	2.2	1.1	0.0	0.0	3.2	0.0	1.6	3.2	0.0	4.8	2.2	2.7	3.2	0.0	8.1
SCIG Yard	0.0	0.0	11.9	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.0	11.9
Additional BNSF Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UP Off-Dock Yards Total	0.0	3.8	7.7	0.0	11.5	7.2	3.5	0.0	0.0	10.7	0.0	6.6	13.4	0.0	20.0	7.2	13.9	21.1	0.0	42.2
East L.A. Yard	0.0	0.2	0.4	0.0	0.6	3.6	1.8	0.0	0.0	5.4	0.0	3.1	6.3	0.0	9.4	3.6	5.1	6.7	0.0	15.3
ICTF Yard	0.0	3.6	7.3	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	0.0	10.9
City of Industry Yard	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.0	1.1	0.0	1.3	2.6	0.0	3.9	0.7	1.6	2.6	0.0	5.0
LATC Yard	0.0	0.0	0.0	0.0	0.0	2.9	1.4	0.0	0.0	4.3	0.0	2.2	4.5	0.0	6.7	2.9	3.6	4.5	0.0	11.0
Additional UP Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Rail Yards Total	0.0	25.9	64.4	0.0	90.2	14.4	7.1	0.0	0.0	21.5	0.0	13.2	26.8	0.0	40.0	14.4	46.1	91.2	0.0	151.7

	Scen	ario #10	b - 204	6 w. P	roject (B	NSF H	igher II	PI Shar	e)											
	IPI L+I					TL L					Dom L+	+E				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	21.9	44.4	0.0	66.3											0.0	21.9	44.4	0.0	66.3
On-Dock Yards BNSF Total	0.0	10.9	22.2	0.0	33.1											0.0	10.9	22.2	0.0	33.1
On-Dock Yards UP Total	0.0	10.9	22.2	0.0	33.1											0.0	10.9	22.2	0.0	33.1
Off-Dock Yards Total	0.0	2.4	20.9	0.0	23.3	14.4	7.1	0.0	0.0	21.5	0.0	13.2	26.8	0.0	40.0	14.4	22.7	47.7	0.0	84.7
BNSF Off-Dock Yards Total	0.0	0.3	16.6	0.0	16.8	7.2	3.5	0.0	0.0	10.7	0.0	6.6	13.4	0.0	20.0	7.2	10.4	30.0	0.0	47.6
Hobart & Commerce Yards	0.0	0.3	0.6	0.0	8.0	5.0	2.5	0.0	0.0	7.5	0.0	5.0	10.2	0.0	15.2	5.0	7.8	10.7	0.0	23.5
San Bernardino Yard	0.0	0.0	0.0	0.0	0.0	2.2	1.1	0.0	0.0	3.2	0.0	1.6	3.2	0.0	4.8	2.2	2.7	3.2	0.0	8.1
SCIG Yard	0.0	0.0	16.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.0	16.0
Additional BNSF Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UP Off-Dock Yards Total	0.0	2.1	4.3	0.0	6.5	7.2	3.5	0.0	0.0	10.7	0.0	6.6	13.4	0.0	20.0	7.2	12.3	17.7	0.0	37.2
East L.A. Yard	0.0	0.1	0.2	0.0	0.3	3.6	1.8	0.0	0.0	5.4	0.0	3.2	6.5	0.0	9.7	3.6	5.1	6.7	0.0	15.4
ICTF Yard	0.0	2.0	4.1	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1	0.0	6.1
City of Industry Yard	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.0	1.1	0.0	1.2	2.4	0.0	3.6	0.7	1.5	2.4	0.0	4.6
LATC Yard	0.0	0.0	0.0	0.0	0.0	2.9	1.4	0.0	0.0	4.3	0.0	2.2	4.5	0.0	6.7	2.9	3.6	4.5	0.0	11.0
Additional UP Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Rail Yards Total	0.0	24.3	65.3	0.0	89.5	14.4	7.1	0.0	0.0	21.5	0.0	13.2	26.8	0.0	40.0	14.4	44.6	92.1	0.0	151.0

	9	Scenari	io #11 -	2020 N	o Proj	ect															
	II	PI L+E					TL L					Dom L+	E				Total				
IM Trains		12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal		0.0	13.3	27.0	0.0	40.4											0.0	13.3	27.0	0.0	40.4
On-Dock Yards BNSF Total On-Dock Yards UP Total		0.0 0.0	6.7 6.7	13.5 13.5	0.0 0.0	20.2 20.2											0.0 0.0	6.7 6.7	13.5 13.5	0.0 0.0	20.2 20.2
Off-Dock Yards Total		0.0	3.0	6.1	0.0	9.1	7.9	3.9	0.0	0.0	11.8	0.0	7.5	15.1	0.0	22.6	7.9	14.4	21.3	0.0	43.6
BNSF Off-Dock Yards Total Hobart & Commerce Yards San Bernardino Yard		0.0 0.0 0.0	1.5 1.5 0.0	3.1 3.1 0.0	0.0 0.0 0.0	4.6 4.6 0.0	4.0 2.8 1.2	2.0 1.4 0.6	0.0 0.0 0.0	0.0 0.0 0.0	5.9 4.1 1.8	0.0 0.0 0.0	3.7 2.6 1.1	7.6 5.3 2.3	0.0 0.0 0.0	11.3 7.9 3.4	4.0 2.8 1.2	7.2 5.5 1.7	10.6 8.4 2.3	0.0 0.0 0.0	21.8 16.6 5.2
SCIG Yard Additional BNSF Yard Capacity Needed		0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0
UP Off-Dock Yards Total East L.A. Yard ICTF Yard		0.0 0.0 0.0	1.5 0.1 1.4	3.1 0.2 2.9	0.0 0.0 0.0	4.6 0.2 4.3	4.0 2.0 0.0	2.0 1.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	5.9 3.0 0.0	0.0 0.0 0.0	3.7 1.9 0.0	7.6 3.8 0.0	0.0 0.0 0.0	11.3 5.6 0.0	4.0 2.0 0.0	7.2 2.9 1.4	10.6 3.9 2.9	0.0 0.0 0.0	21.8 8.8 4.3
City of Industry Yard LATC Yard Additional UP Yard Capacity Needed		0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.4 1.6 0.0	0.2 0.8 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.6 2.4 0.0	0.0 0.0 0.0	0.4 1.5 0.0	0.8 3.0 0.0	0.0 0.0 0.0	1.1 4.5 0.0	0.4 1.6 0.0	0.6 2.3 0.0	0.8 3.0 0.0	0.0 0.0 0.0	1.7 6.9 0.0
All Rail Yards Total		0.0	16.3	33.2	0.0	49.5	7.9	3.9	0.0	0.0	11.8	0.0	7.5	15.1	0.0	22.6	7.9	27.7	48.3	0.0	83.9

	Scena	rio #12	2 - 2020	0 w. P	roject															
	IPI L+E					TL L					Dom L	+E				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	13.3	27.0	0.0	40.4											0.0	13.3	27.0	0.0	40.4
On-Dock Yards BNSF Total	0.0	6.7	13.5	0.0	20.2											0.0	6.7	13.5	0.0	20.2
On-Dock Yards UP Total	0.0	6.7	13.5	0.0	20.2											0.0	6.7	13.5	0.0	20.2
Off-Dock Yards Total	0.0	1.6	7.9	0.0	9.5	7.9	3.9	0.0	0.0	11.8	0.0	7.5	15.1	0.0	22.6	7.9	12.9	23.1	0.0	44.0
BNSF Off-Dock Yards Total	0.0	0.1	4.9	0.0	4.9	4.0	2.0	0.0	0.0	5.9	0.0	3.7	7.6	0.0	11.3	4.0	5.8	12.4	0.0	22.2
Hobart & Commerce Yards	0.0	0.1	0.2	0.0	0.2	2.8	1.4	0.0	0.0	4.1	0.0	2.6	5.3	0.0	7.9	2.8	4.1	5.5	0.0	12.3
San Bernardino Yard SCIG Yard	0.0	0.0	0.0 4.7	0.0	0.0 4.7	1.2 0.0	0.6 0.0	0.0	0.0	1.8 0.0	0.0	1.1 0.0	2.3 0.0	0.0	3.4 0.0	1.2	1.7 0.0	2.3 4.7	0.0	5.2 4.7
Additional BNSF Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UP Off-Dock Yards Total	0.0	1.5	3.1	0.0	4.6	4.0	2.0	0.0	0.0	5.9	0.0	3.7	7.6	0.0	11.3	4.0	7.2	10.6	0.0	21.8
East L.A. Yard	0.0	0.1	0.2	0.0	0.2	2.0	1.0	0.0	0.0	3.0	0.0	1.9	3.8	0.0	5.6	2.0	2.9	3.9	0.0	8.8
ICTF Yard	0.0	1.4	2.9	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.9	0.0	4.3
City of Industry Yard	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.6	0.0	0.4	8.0	0.0	1.1	0.4	0.6	8.0	0.0	1.7
LATC Yard	0.0	0.0	0.0	0.0	0.0	1.6	0.8	0.0	0.0	2.4	0.0	1.5	3.0	0.0	4.5	1.6	2.3	3.0	0.0	6.9
Additional UP Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Rail Yards Total	0.0	14.9	35.0	0.0	49.9	7.9	3.9	0.0	0.0	11.8	0.0	7.5	15.1	0.0	22.6	7.9	26.3	50.1	0.0	84.3

	Scen	ario #1	13 - 20	30 N	o Project	t														
	IPI L+I	E				TL L					Dom L	.+E				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	20.5	41.6	0.0	62.1											0.0	20.5	41.6	0.0	62.1
On-Dock Yards BNSF Total	0.0	10.2	20.8	0.0	31.1											0.0	10.2	20.8	0.0	31.1
On-Dock Yards UP Total	0.0	10.2	20.8	0.0	31.1											0.0	10.2	20.8	0.0	31.1
Off-Dock Yards Total	0.0	5.4	10.9	0.0	16.3	12.6	6.2	0.0	0.0	18.8	0.0	11.0	22.4	0.0	33.4	12.6	22.6	33.3	0.0	68.6
BNSF Off-Dock Yards Total	0.0	2.7	5.5	0.0	8.1	6.3	3.1	0.0	0.0	9.4	0.0	5.5	11.2	0.0	16.7	6.3	11.3	16.7	0.0	34.3
Hobart & Commerce Yards	0.0	2.7	5.5	0.0	8.1	4.4	2.2	0.0	0.0	6.6	0.0	3.9	7.8	0.0	11.7	4.4	8.7	13.3	0.0	26.4
San Bernardino Yard	0.0	0.0	0.0	0.0	0.0	1.9	0.9	0.0	0.0	2.8	0.0	1.7	3.4	0.0	5.0	1.9	2.6	3.4	0.0	7.8
SCIG Yard	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Additional BNSF Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UP Off-Dock Yards Total	0.0	2.7	5.5	0.0	8.1	6.3	3.1	0.0	0.0	9.4	0.0	5.5	11.2	0.0	16.7	6.3	11.3	16.7	0.0	34.3
East L.A. Yard	0.0	0.1	0.3	0.0	0.4	3.2	1.6	0.0	0.0	4.7	0.0	2.8	5.6	0.0	8.4	3.2	4.4	5.9	0.0	13.5
ICTF Yard	0.0	2.6	5.2	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.2	0.0	7.7
City of Industry Yard	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.0	0.0	0.9	0.0	0.6	1.1	0.0	1.7	0.6	0.9	1.1	0.0	2.6
LATC Yard	0.0	0.0	0.0	0.0	0.0	2.5	1.2	0.0	0.0	3.8	0.0	2.2	4.5	0.0	6.7	2.5	3.4	4.5	0.0	10.5
Additional UP Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Rail Yards Total	0.0	25.9	52.5	0.0	78.4	12.6	6.2	0.0	0.0	18.8	0.0	11.0	22.4	0.0	33.4	12.6	43.1	74.9	0.0	130.7

	Scena	rio #14	- 2030	w. Pr	oject															
	IPI L+E					TL L					Dom L+	ŀΕ				Total				
IM Trains	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL	12K	10K	8K	6K	TOTAL
On-Dock YardsTotal	0.0	20.5	41.6	0.0	62.1											0.0	20.5	41.6	0.0	62.1
On-Dock Yards BNSF Total	0.0	10.2	20.8	0.0	31.1											0.0	10.2	20.8	0.0	31.1
On-Dock Yards UP Total	0.0	10.2	20.8	0.0	31.1											0.0	10.2	20.8	0.0	31.1
Off-Dock Yards Total	0.0	2.8	14.1	0.0	17.0	12.6	6.2	0.0	0.0	18.8	0.0	11.0	22.4	0.0	33.4	12.6	20.1	36.5	0.0	69.2
BNSF Off-Dock Yards Total	0.0	0.1	8.7	0.0	8.8	6.3	3.1	0.0	0.0	9.4	0.0	5.5	11.2	0.0	16.7	6.3	8.8	19.9	0.0	34.9
Hobart & Commerce Yards	0.0	0.1	0.3	0.0	0.4	4.4	2.2	0.0	0.0	6.6	0.0	3.9	7.8	0.0	11.7	4.4	6.2	8.1	0.0	18.7
San Bernardino Yard	0.0	0.0	0.0	0.0	0.0	1.9	0.9	0.0	0.0	2.8	0.0	1.7	3.4	0.0	5.0	1.9	2.6	3.4	0.0	7.8
SCIG Yard	0.0	0.0	8.4	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	8.4
Additional BNSF Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UP Off-Dock Yards Total	0.0	2.7	5.5	0.0	8.1	6.3	3.1	0.0	0.0	9.4	0.0	5.5	11.2	0.0	16.7	6.3	11.3	16.7	0.0	34.3
East L.A. Yard	0.0	0.1	0.3	0.0	0.4	3.2	1.6	0.0	0.0	4.7	0.0	2.8	5.6	0.0	8.4	3.2	4.4	5.9	0.0	13.5
ICTF Yard	0.0	2.6	5.2	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.2	0.0	7.7
City of Industry Yard	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.0	0.0	0.9	0.0	0.6	1.1	0.0	1.7	0.6	0.9	1.1	0.0	2.6
LATC Yard	0.0	0.0	0.0	0.0	0.0	2.5	1.2	0.0	0.0	3.8	0.0	2.2	4.5	0.0	6.7	2.5	3.4	4.5	0.0	10.5
Additional UP Yard Capacity Needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Rail Yards Total	0.0	23.3	55.7	0.0	79.1	12.6	6.2	0.0	0.0	18.8	0.0	11.0	22.4	0.0	33.4	12.6	40.6	78.1	0.0	131.3