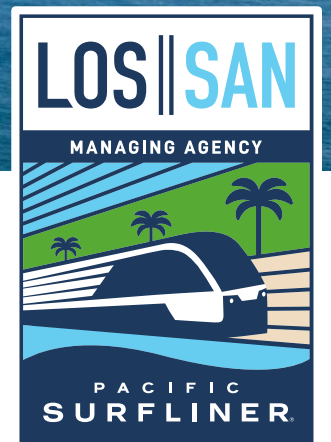




Pacific Surfliner Equipment Update

Technical Advisory Committee | August 4, 2022



Pacific Surfliner Equipment

- The Pacific Surfliner service has been utilizing bi-level cars since 2000
- 39 custom Surfliner cars were purchased new by Amtrak and 10 cars by the California Department of Transportation (Caltrans) between 1998-2001 for specific use on the Pacific Surfliner service
- Over the years, as ridership grew, additional cars were needed to lengthen trainsets and add more service
- The additional cars were leased from Amtrak's long-distance bi-level Superliner fleet

Pacific Surfliner Equipment Reduction

March 2020 - ridership dropped significantly due to the COVID-19 pandemic.

Level of service was reduced 50-percent

Fleet size was reduced 29-percent

Equipment Type		Feb 2020	May 2021	Jul 2022
Locomotives	SC-44 Charger	14	14	14
	GE P-40 / P-42 Genesis	4*	-	-
Amtrak Long-Distance Bi-Levels	Superliner Coach	16	9	11
	Superliner Coach / Baggage	4	-	-
Single-Level	Horizon	16	-	-
	Amfleet	1	-	-
Surfliner Bi-Levels	Surfliner Coach / Baggage	11	11	11
	Surfliner Coach	18	21	21
	Surfliner Café	10	10	10
	Surfliner Business Class	10	10	10
TOTALS	Total Locomotives	18	14	14
	Total Cars	86	61	63

California Intercity Passenger Car History

There has been a need for additional equipment since before to the COVID pandemic

In 2012, Caltrans issued an RFP for a next generation bi-level car to replace the existing Surfliner and California 1 bi-level cars and grow the services.

In 2015, after several delays and production issues, Caltrans canceled the contract for bi-level cars.

In 2017, Caltrans placed an order for seven 7-car trainsets of the new Siemens, single-level Venture cars.

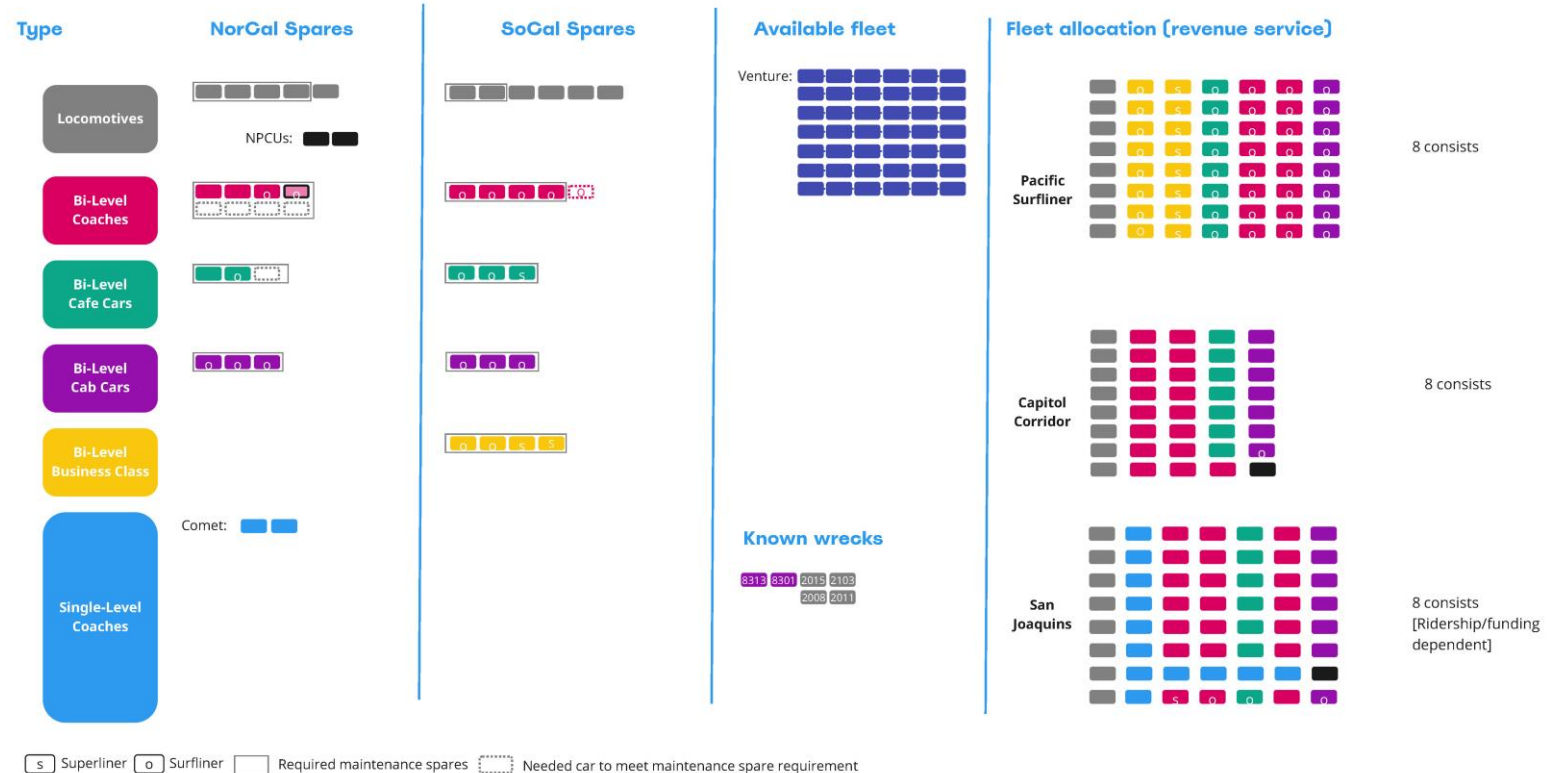
- These cars will operate primarily on the San Joaquins.



California Bi-Level Car Redeployment Plan

On July 17, 2022, a workshop was held to develop a redeployment plan for the existing Surfliner and California 1 bi-level equipment

Baseline Scenario - No Venture Car Sets



California Bi-Level Car Redeployment Plan

The outcome of the workshop presented a plan that:

Developed proposal for **equipment redeployment**

Identified **service growth** potential

California Bi-Level Car Redeployment Plan

As Venture trainsets enter service, bi-level cars will be redeployed to the Pacific Surfliner

No. of Venture sets in Revenue Service	0	2	3	3	4	5	6	7
Bi-Level Car Classification	Baseline (Oct 22)	Phase 1 (Jan 23)	Phase 2A (Apr 23)	Phase 2B (Apr 23)	Phase 3 (Aug 23)	Phase 4 (Oct 23)	Phase 5 (Jan 24)	Phase 6 (Aug 24)
California I Coast	-	-	-	-	-	3	3	7
California I Coast	-	-	-	-	-	-	-	-
California I Coast	-	-	-	-	-	-	-	-
California I Coast	20	20	22	25	25	23	23	23
California I Coast	10	10	10	10	10	11	11	12
California I Coast	11	11	12	11	12	13	14	14
California I Coast	10	10	10	10	10	10	10	10
California I Coast	11	11	12	12	12	12	12	12
TOTAL	42	42	44	47	44	72	78	78

LOS|SAN

Deployment of Venture cars enables increasing the service level by six trainsets – additional equipment needed to go beyond pre-pandemic level

Service level in # of revenue trainsets

Venture deployment

Subject to available funding

Revenue trainsets	Baseline (Oct 22)	Phase 1 (Jan 23)	Phase 2A (Apr 23)	Phase 2B (Apr 23)	Phase 3 (Aug 23)	Phase 4 (Oct 23)	Phase 5 (Jan 24)	Phase 6 (Aug 24)
Capitol Corridor	7	8	8	8	9	9	9	10
San Joaquin Hills	7	8	8	8	9	9	9	10
Pacific Surfliner	7	8	8	9	10	10	11	11

LOS|SAN

California Bi-Level Car Redeployment Plan

As Venture trainsets enter service, bi-level cars will be redeployed to the Pacific Surfliner

No. of Venture Sets in Revenue Service	0	2	3	3	4	5	6	7
Bi-Level Car Classification	Baseline (Oct 22)	Phase 1 (~Jan 23)	Phase 2A (~Apr 23)	Phase 2B (~Apr 23)	Phase 3 (~Aug 23)	Phase 4 (~Oct 23)	Phase 5 (~Jan 24)	Phase 6 (~Aug 24)
California 1 Coach	-	-	-	-	-	3	5	7
California 1 Diner	-	-	-	-	-	-	-	-
California 1 Cab	-	-	-	-	-	-	-	-
Surfliner Coach	20	20	22	20	22	23	23	23
Surfliner Café	10	10	10	10	10	11	11	12
Surfliner Cab	11	11	12	11	12	13	14	14
Surfliner Business Class	10	10	10	10	10	10	10	10
Superliner	11	11	12	12	12	12	12	12
TOTAL	62	62	66	63	66	72	75	78

Deployment of Venture cars enables increasing the service level by six trainsets – additional equipment needed to go beyond pre-pandemic level

Service level

in # of revenue trainsets

Service level in # of revenue trainsets		Venture deployment								Subject to available funding		
				1	2a	2b	3	4	5	6	7	8
New equipment	Today	Baseline	2 Vent.	3 Vent.	3 Vent.	4 Vent. (1 cab)	5 Vent. (6 cabs)	6 Vent. (7 cabs)	7 Vent. (7 cabs)	11 Vent.	7 Vent.+8 S. ¹	11 Vent.+8 S. ¹
Estimated timeframe	06/2022	10/2022	01/2023	04/2023	04/2023	08/2023	10/2023	01/2024	08/2024	TBD	TBD	TBD
Capitol Corridor	7	8	8	8	9	9	9	9	9	10	10	10 (11) ²
San Joaquins	7	8	8	8	8	8	8	8	8	9	9	9
Pacific Surfliner	7	8	8	9	8	9	10	10	10	11	11	11 (12) ²

(1) Rebuilt Superliner cars (2) One additional revenue train set possible
 Source: Fleet Deployment Workshop 6/17/22, Caltrans

Equipment Needs for Service Growth

Options Presented to State to Address Near-Term Growth Beyond Pre-Pandemic Service

- Evaluate the feasibility of procuring four additional 7-car trainsets of the new Siemens, single-level Venture cars
- Proceed with the procurement of the 3 Superliner cars and evaluate procurement of 5 additional cars from third-party private company





QUESTIONS?