NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C.

Attachment A.
Cabin Interior Modification History
(14 pages)

Exhibit 6B

Attachment A

Cabin Interior Modification

The Airplane Interior Documentation Group documented modifications made to the interior from the time the airplane was received by TWA to July 17, 1996. The primary sources of reference utilized were Boeing drawing 65B59031 SH.1 (Interior Arrangement diagram Trans World Airlines) and TWA drawing CFG: 29/404 dated 10/12/95.

Airplane Interior Zone Designations

Zone A, FWD of door #1, STA 140-464

Zone B, between door #1 and #2, STA 464-830

Zone C, between door #2 and #3, STA 830-1295

Zone D, between door #3 and #4, STA 1295- 1694

Zone E, between door #4 and #5, STA 1694-2261

Zone F, AFT of door #5, STA 2261-2400

Upper Deck

Seats

Delivery: The original delivery arrangement was a 15 seat flight lounge. The seating on the upper deck was not to be occupied for take-off and landing. There were 11 track mounted 360 degree swivel seats and 2 track mounted double settees. The upper deck seats were manufactured by Hardman Aero Space.

TWA: The TWA arrangement consisted of 8 first class at a 76' pitch. 2 double sleeper seats were installed on the RH and LH sides. The manufacturer of the seats was Avio Interiors.

Galleys

Delivery: A track mounted dry bar unit was installed on the LH side from STA 480-520. The supplier of the bar unit was Henry Engineering.

TWA: The bar unit was deleted and replaced with a track mounted galley on the LH side from STA 480-540. The galley unit had water and power. The insert configuration is shown on TWA config. 29/396.

Lavatories

The U1 and U3 lavatories installed on delivery were retained by TWA.

Closets

Delivery: 2 single rod coat closets were installed in the STA 710 endwall.

TWA: The 2 closets in the STA 710 endwall were deleted with the removal of the STA 710 endwall. A single rod closet was installed at BL0 in the STA 736.5 endwall. The closet had 2 fwd opening doors.

Stowage bins

Delivery: A track mounted stowage unit was installed on the RH side adjacent to the U3 lavatory at STA 540. The stowage unit had aft opening panel doors. Overhead stowage bins were not installed on the upper deck in either the delivery or the TWA arrangement.

TWA: The stowage unit adjacent to the U3 lavatory on the delivery arrangement was deleted and replaced by a track mounted stowage unit with aft opening doors at STA 559. A video monitor was installed above doors. Floor mounted sidewall stowage boxes were installed on the LH and RH side.

Partitions/class dividers

Delivery: A full height endwall was installed at STA 710.

TWA: The STA 710 endwall was deleted. A full height endwall was installed at STA 736.5.

Flight attendant seats

Delivery: There were not any attendant seats installed on the U/D in the delivery arrangement. The seating on the upper deck was not to be occupied for take-off and landing.

TWA: An aft facing single folding attendant seat was installed on the LH STA 480 bulkhead.

Sidewalls

Delivery: Standard linings were installed on the U/D

TWA: The delivery linings were retained.

Movies/video

Delivery: Video equipment was not installed on the U/D.

TWA: A video monitor was installed in the STA 558 stowage unit. The video system was manufactured by Avicom.

Zone A



Seats

livery: The original arrangement was 27 first class at a 41" pitch. 6 doubles were installed outboard on the LH and RH side. The seat supplier was Hardman Aero Space. In the center a fwd facing double and aft facing single were installed. The aft facing single was a seat/stowage/settee combination. A table with folding wing panels was installed between the center seats. The center seats and table were supplied by Henry Engineering Company.

TWA: The TWA configuration consisted of 21 first class at a 57" pitch. 1 single and 4 double sleeper seats were installed outboard on the LH and RH side. 1 single and 1 double sleeper seat were installed in the center. Avio Interiors was the supplier of all the first class seats.

Galleys and Lavatories

There were no galleys or lavatories installed in Zone A in either the delivery or the TWA arrangement.

Closets

Delivery: A single rod closet with a shelf was installed in the front end of Zone A in the delivery arrangement. The aft face was at STA 172 and had two aft opening doors.

TWA: The nose closet was removed.

Partitions/class dividers

Delivery: There were no partitions/class dividers installed in the original arrangement.

TWA: The front nose closet was removed and replaced with a decorative panel at STA 142.5.

Flight Attendant Seats

Delivery: An aft facing auto-folding double attendant seat was installed fwd of doors 1R and 1L.

TWA: The attendant seats were retained.

Stowage bins

Delivery: Boeing standard pivot type bins were installed on the outboard side (LH and RH) from fwd of the door 1 lowered ceiling to the lowered ceiling in the nose of Zone A. Each side had 5 bins. 4 had a 40 lb. capacity and 1 had a 30 lb. capacity. Stowage bins were not installed over the center seats in Zone A.

TWA: The Boeing standard bins were replaced with large shelf bins with aisle opening doors (LH and RH). The bins were manufactured by C&D Interiors. In the fwd end a lowered ceiling/closet was installed.

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Sidewalls

Delivery: Standard Boeing sidewalls were installed on the LH and RH side.

TWA: The standard sidewalls were replaced with sidewalls manufactured by C&D Interiors.

Movies/video

Delivery: A drop down movie screen was installed in the lowered ceiling in the nose of Zone A. A movie projector was installed in the fwd face of the door 1 lowered ceiling.

TWA: A pull down video screen was installed in the nose area lowered ceiling. A video projector was installed in the center PSU trough. The video console was installed in the first stowage bin fwd of door 1 on the RH side. The video system was manufactured by Avicom.

Zone B

Seats

Delivery: The original Zone B configuration was 34 first class at a 41" pitch. There were 7 doubles installed outboard on the LH and RH side. There were three double seats installed in the center. The seat supplier was Hardman Aerospace.

TWA: The TWA configuration consisted of 62 economy class at a 33/34" pitch. There were 8 triple seats installed outboard on the LH and RH side. There were 2 quads and 2 triples installed in the center. The triple seats (LH, RH, and CTR) were manufactured by BES. The quad seats in row 11 were manufactured by BES. The quad seats in row 12 were manufactured by UOP.

Galleys

Delivery: Two galleys were installed in Zone B. Galley 1A was installed aft of door 1 from STA 520-551, LBL 35- RBL 35. Galley 2A was installed fwd of door 2 from STA 782-812, LBL 34 to RBL 37. The galley 1A and 2A were manufactured by Nordskog Co. Inc. The galley insert locations and installation instructions are documented on Boeing drawing 65B51602. A bar unit was installed under the circular stairway. The understair bar unit was manufactured by Henry Engineering.

TWA: The 1A and 2A galleys were retained in the delivery footprint except labeled galley A and B. The insert configuration was altered and is shown on TWA config 29/396. Aft of door 1L, a full height aux bar was installed under the lowered ceiling from STA 498-517. A video monitor was installed on the aft side. The insert configuration for the aux bar is shown on TWA config 29/396. The manufacturer of the aux bar was C&D Interiors. The under stair bar unit was



retained from the delivery arrangement. The insert configuration for the understair bar unit is also shown on TWA config. 29/396.

Lavatories

Delivery: Lavatories D and E were installed from STA 551-592. The D and E lavatories had aft opening panel doors.

TWA: The D and E lavatories were retained but were modified to replace the aft opening panel doors with aisle opening bi-fold doors.

Closets

Delivery: Closets were not installed in Zone B on the original delivery arrangement.

TWA: A full height coat closet was installed under the door 1 lowered ceiling, just aft of door 1R from STA 498-517. A video monitor was installed on the aft side. The manufacturer of the closet was C&D Interiors.

Stowage bins

Delivery: A track mounted mid-height stowage was installed aft of the centerline modesty screen from STA 618-636, LBL 35- RBL 35. The unit had 2 aisle opening drawers on the LH and RH side. A track mounted doghouse was installed fwd of the B galley at STA 781.

TWA: The stowage units from the delivery arrangement were deleted. A track mounted stowage unit was installed aft of the D and E lavatories from STA 592-610. Each side had a stainless steel incline floor, in the lower portion, with a floor mounted cart locking device. These units were used for liquor cart stowage. The upper portion had aisle opening doors for misc. stowage and slots for magazine stowage. Insert/stowage configuration is shown on TWA config. 29/396. The stowage unit was manufactured by TWA. A video screen was installed on the aft side.

Partitions/class dividers

Delivery: A modesty screen was installed aft of the D and E lavatories at STA 618. A curtain and track extended between the LH and RH sides of the D and E lavatories and the modesty screen to provide privacy to the lavatories. A movie screen was installed on the aft side of the modesty screen. Class dividers were installed at STA 793 on the LH and RH side. The dividers had slide down panels to provide for movie viewing from Zone C to the Zone B screen.

TWA: The partitions/class dividers that were provided in the delivery arrangement were deleted. No partitions/class dividers were installed in Zone B in the TWA arrangement.

Flight attendant seats

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Delivery: Aft facing auto-folding double attendant seats were installed fwd of door 2R and 2L.

TWA: The attendant seats in Zone B were retained from the delivery arrangement.

Stowage bins

Delivery: Outboard pivot type stowage bins were installed between the door 1 lowered ceiling and the door 2 lowered ceiling on the LH and RH side. Each side had 6 bins, each with a 40 lb. capacity. The center pivot bins were installed from STA 630 to STA 780. 4 bins were installed on each side. 2 bins had a 30 lb. capacity and 2 had a 40 lb. capacity.

TWA: The original outboard stowage bins were deleted and replaced with large shelf style bins with aisle opening doors. The shelf bins were manufactured by C&D Interiors. The center stowage bins were retained in their original delivery configuration.

Sidewalls

Delivery: Standard Boeing sidewalls were installed on the LH and RH side.

TWA: The original sidewalls were deleted and replaced with sidewalls that were manufactured by C&D Interiors.

Movies/videos

Delivery: A movie screen was installed on the aft side of the STA 618 modesty screen. A movie projector was installed in the aft center stow bin end cap at approx. STA 780.

TWA: The movie system was replace with a video system. A video screen was installed on the aft side of the STA 610 stowage unit. A video projector was installed in the PSU rails of the center stowage at approx. STA 670. A video monitor was installed in the RH closet at STA 517. A video monitor was installed in the LH galley at STA 517. The video system was manufactured by Avicom.

Zone C

Seats

Delivery: The original Zone C seating arrangement was 92 economy class at a 34" pitch. There were 12 triples installed on the LH side, 12 doubles installed on the RH side and 8 quads installed in the center. The supplier for the economy class seats was Burns Aero Seat Co...

TWA: The TWA configuration consisted of 110 economy class at a 33/34" pitch. There were 12 triples installed on the LH side. There were 2 doubles and 10



triples installed on the RH side. There were 11 quads installed in the center. The seats were manufactured by Weber.

Galleys

Delivery: Two galleys were installed in Zone C in the center just aft of door 2. Galley 2B was installed from STA850-880, LBL 35 to RBL 55. Galley 2C was installed from STA 880-910, LBL 35 to RBL 55. The galley insert locations and installation instructions are documented on Boeing drawing 65B51602. The galley supplier was Nordskog Co. Inc.

TWA: The 2B galley was retained in the original delivery footprint except renamed to galley C. The insert configuration was altered and is shown on TWA config. 29/396. The 2C galley was deleted.

Lavatories

Delivery: The H and J lavatories were installed from STA 1260-1301. The H and J lavatories had aft opening panel doors.

TWA: The H and J lavatories were retained from the delivery arrangement.

Closets

Delivery: A 2 rod closet with a shelf was installed adjacent to the H lavatory on the RH side from STA 1260-1301. The closet had 2 doors that opened into the aisle.

TWA: The closet installed from 1260-1301 in the delivery arrangement was deleted.

Stowage bins

Delivery: A track mounted under-bin stowage unit was installed fwd of the H and J lavatories from STA 1242-1260. Each side has 3 aisle opening drawers with a magazine compartment above the drawers. A track mounted doghouse was installed fwd of the STA 1242 stowage unit from STA 1234-1241.

TWA: The stowage units were deleted from the original delivery configuration.

Partitions/class dividers

Delivery: A centerline partition was installed at STA 948 with fwd folding galley workshelves. Fwd folding crew rest seats were installed on the fwd side.

TWA: The partition from the delivery configuration was deleted.

Flight attendant seats

Delivery: An aft facing auto folding double attendant seat was installed fwd of door 3L. An aft facing auto folding single attendant seat was installed fwd of

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door 3R. A double non-occupiable for take-off and landing seat was installed on the fwd side of the STA 948 partition.

TWA: The double attendant seat fwd of door 3L and the single fwd of door 3R were retained. The double seat on the STA 948 partition was deleted with the deletion of the partition.

Stowage bins

Delivery: Pivot type outboard stow bins were installed on the LH and RH side between the lowered ceiling at door 2 and door 3. There were 9 bins installed on each side with each having a capacity of 40 lbs. Pivot type center stowbins were installed from STA 1080 to the door 3 lowered ceiling. 4 bins were installed on the left and right centerline and each bin had a capacity of 40 lbs.

TWA: The original outboard bins were deleted and replaced with large shelf style bins with aisle opening doors. The shelf bins were manufactured by C&D Interiors. The center stowbins were retained from the original delivery arrangement.

Sidewalls

Delivery: Standard Boeing sidewalls were installed on the LH and RH sides.

TWA: The original sidewalls were deleted and replaced with sidewalls that were manufactured by C&D Interiors.

Movies/video

Delivery: A movie screen was installed on the aft side of the STA 948 center partition. A movie projector was installed in the fwd end cap of the center stow bins at STA 1080.

TWA: The movie system was replaced with a video system. A flip type video screen was installed on the aft side of galley C at STA 880. A video projector was installed in the center overhead PSU trough at approx. STA 940. The video system was manufactured by Avicom.

Zone D

Seats

Delivery: The original Zone D seating arrangement was 78 economy class at a 34" pitch. 10 triple seats were installed on the LH side 10 double seats were installed on the RH side. In the center 7 quad seats were installed. The supplier for the seats was Burns Aero Seat.

TWA: The TWA configuration consisted of 90 economy class at a 33/34" pitch. 10 triples were installed on the LH side. 8 triples and 2 doubles were installed on



the RH side. In the center 8 quad seats were installed. The manufacturer of the seats was UOP.

Galleys

Delivery: Galley 4A was installed fwd of door 4 from STA 1643-1673, LBL 35-RBL55. The galley insert locations and installation instructions are documented on Boeing drawing 65B51602. The manufacturer of the 4A galley was Nordskog Co. Inc.

TWA: The 4A galley was retained in the delivery footprint except labeled galley D. The insert configuration had been altered and is shown on TWA config. 29/396.

Lavatories

Delivery: The K and L lavatories were installed from STA 1326-1367. The K and L lavatories had fwd opening panel doors.

TWA: The K and L lavatories were retained.

Closets

Delivery: A 2 rod closet with a shelf was installed adjacent to the K lavatory on the RH side from STA 1326-1367. The closet had 2 doors that opened into the aisle.

TWA: The closet adjacent to the K lavatory was deleted.

Stowage bins

Delivery: A track mounted under-bin stowage unit was installed fwd of the 4A galley from STA 1625-1543. Each side had 3 aisle opening drawers with a magazine compartment above the drawers. A track mounted doghouse was installed fwd of the STA 1625 stowage unit from STA 1619-1625.

TWA: The STA 1625 stowage unit and doghouse were deleted from the delivery arrangement.

Partitions/class dividers

There were not any partitions or class dividers in either the original delivery arrangement or the TWA arrangement.

Flight attendant seats

Delivery: An aft facing auto-folding double attendant seat was installed fwd of door 4L. An aft facing auto-folding single attendant seat was installed fwd of door 4R.

TWA: The attendant seats in Zone D were retained.



Stowage bins

Delivery: Pivot type outboard stowage bins were installed on the LH and RH side between the lowered ceilings at door 3 and door 4. There were 8 bins installed on each side. 1 had a capacity of 30 lbs, 6 had a capacity of 40 lbs and 1 had a capacity of 20 lbs. Pivot type center stowage bins were installed from STA 1500 to the door 4 lowered ceiling. 3 bins were installed on the left and right of centerline with each bin having a capacity of 40 lbs.

TWA: The original outboard bins were deleted and replaced with large shelf style bins with aisle opening doors. The shelf bins were manufactured by C&D Interiors. The center stowage bins were retained from the original delivery arrangement.



Sidewalls

Delivery: Standard Boeing sidewalls were installed on the RH and LH sides.

TWA: The original sidewalls were deleted and replaced with sidewalls manufactured by C&D Interiors.

Movies/video

Delivery: A movie screen was installed on the aft wall of the K and L lavatories at STA 1367. A movie projector was installed in the fwd end cap of the center stowage bins at STA 1500.

TWA: The movie system was replaced with a video system. A flip type video screen was installed on the aft wall of the K and L lavatories at STA 1367. A video projector was installed in the overhead PSU trough at approx. STA 1430. The video system was manufactured by Avicom.

Zone E

Seats

Delivery: The original Zone E seating arrangement was 114 economy class at a 34" pitch. 11 triple seats and 4 double seats were installed on the LH side. 11 double seats and 4 single seats were installed on the RH side. 11 quad seats and 1 triple seat was installed in the center. The supplier of the seats was Burns Aero Seat.

TWA: The TWA configuration consisted of 138 economy class at a 33/34" pitch. 12 triple seats and 3 double seats were installed on the LH side. 2 double seats, 10 triple seats and 3 double seats were installed on the RH side. 14 quad seats were installed in the center. The manufacturer of the seats was UOP.

Galleys

Delivery: Galley unit 4B was installed aft of door 4 from STA 1711-1741, LBL 35-RBL 55. Galley 4C was installed from STA 174\`-1771. The galley insert locations and installation instructions are documented on Boeing drawing 65B51602. The galley supplier was Nordskog Co. Inc.

TWA: Galley 4B was retained in the original delivery footprint and renamed galley E. The insert configuration was altered and is shown on TWA config. 29/396. Galley 4C was deleted.



Lavatories

Lavatories were not installed in Zone E in either the delivery arrangement or the TWA arrangement.

Closets

Closets were not installed in Zone E in either the delivery arrangement or the TWA arrangement.

Stowage bins

Delivery: A track mounted under-bin stowage unit was installed fwd of the STA 2253 partition from STA 2234-2253. Each side had 3 aisle opening drawers with a magazine compartment above the drawers. A track mounted doghouse was installed in the center from STA 2229-2234.

TWA: The track mounted stowage unit and doghouse were deleted from the delivery arrangement. A track mounted under-bin duty-free module was installed from STA 2233-2253. The insert configuration is shown on TWA config. 29/396. The duty-free unit was manufactured by TWA.

Partitions/class dividers

Delivery: There was a centerline partition installed at STA 1809 with fwd folding galley workshelves. Fwd folding crew rest seats were installed on the fwd side. A movie screen was installed on the aft side. A partition/wind-screen was installed in the center fwd of door 5 at STA 2253.

TWA: The partitions at STA 1809 and 2253 were deleted. Partitions/class dividers installed in Zone E in the TWA arrangement.

Flight attendant seats

Delivery: A fwd facing folding crew seat was installed on the fwd side of the STA 1809 partition. The seat was not occupiable for take-off and landing.

TWA: The crew seat on the fwd side of the STA 1809 partition was removed with the deletion of the partition.

Stowage bins

Delivery: Pivot type outboard stowage bins were installed on the LH and RH side between the lowered ceilings at door 4 and door 5. There were 12 bins installed on each side. 10 had the capacity of 40 lbs. And 2 had a capacity of 30 lbs. Pivot type center stowbins were installed from STA 1940 to the door 5 lowered ceiling. 7 bins were installed on the left and right of centerline. 6 had a capacity of 40 lbs. And 1 had a capacity 30 lbs.

TWA: The original outboard bins were deleted and replaced with large shelf style bins with aisle opening doors. The shelf bins were manufactured by C&D

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Interiors. The center stowage bins were retained from the original delivery arrangement.

Sidewalls

Delivery: Standard sidewalls were installed on the LH and RH sides.

TWA: The original sidewalls were deleted and replaced with sidewalls that were manufactured by C&D Interiors.

Movies/video

Delivery: A movie screen was installed on the aft side of the STA 1809 partition. A movie projector was installed in the fwd end cap of the center stowage bins at STA 1940.

TWA: The movie system was replaced with a video system. A video screen was installed on the aft side of the E galley at STA 1742. A video projector was installed in the center overhead PSU trough at approx. STA 1802. The video system was manufactured by Avicom.

Zone F

Seats, galleys, stowages, partitions, stowage bins, sidewalls, video/movies

There were none of the above commodities in Zone F in either the delivery or the TWA arrangement.

Lavatories

Delivery: The M and N lavatories were installed from STA 2277-2313. The Q and R lavatories were installed from STA 2313-2349. The M,N,Q and R lavatories had aisle opening panel doors.

TWA: The M,N,Q and R lavatories were retained from the delivery arrangement. Lavatory S was installed from STA 2360-2400 with a fwd opening panel door.

Closets

Delivery: A 3 rod closet was installed on the LH side from STA 2300-2360. A 3 rod closet with a stowage compartment above the closet was installed on the RH side from STA 2300-2360. A 2 rod closet with a shelf above was installed in the same envelope where the S and T lavatories would have been.

TWA: The 3 rod closet on the LH and RH sides from STA 2300-2360 were retained. The closet in the T lavatory envelope was retained. The closet in the S lavatory envelope was deleted.

Flight attendant seats

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Delivery: A fwd facing auto folding single attendant seat was installed on the fwd wall of the STA 2300 closet on the LH and RH side.

TWA: The Zone F attendant seats were retained from the delivery arrangement.

