

INSPECTION DOCUMENT 04

| | |
|----------------------|-------|
| Date: | _____ |
| Registration Number: | _____ |
| Serial Number: | _____ |
| Total Time: | _____ |

1. Description

- A. Inspection Document 04 gives a list of item(s), which are completed at every 72 calendar months.
- B. Inspection items are given in the sequence of the zone in which the inspection is completed. A description of the inspection, as well as the Item Code Number are supplied for cross-reference to section 5-10-01. Frequently, tasks give more information about each inspection. These tasks are found in the individual chapters of this manual.
- C. The right portion of each page gives space for the mechanic's and inspector's initials and remarks. You can use copies of these pages as a checklist while you complete the tasks in this Inspection Document.

2. General Inspection Criteria

- A. As you complete each of the inspection tasks in this Inspection Document, examine the adjacent area while access is available to find conditions that need more maintenance.
- B. If it is necessary to replace a component or to make a change to a system while you complete a task, do the task again before the system or component is returned to service.
- C. Inspection Kits are available for some Inspection Documents. They supply consumable materials used to complete the inspection item(s) given for the interval. Refer to the Model 208 Illustrated Parts Catalog, Introduction, Service Kit List to find applicable part numbers.

| ITEM CODE NUMBER | TASK | ZONE | MECH | IN-SP | REMARKS |
|------------------|--|---|------|-------|---------|
| A255201 | Cargo Pod Zonal Inspection Task 25-52-00-210 | 901 902 903 904 905 906 | | | |
| B262005 | Portable Fire Extinguisher Restoration (Internal Inspection) Task 26-20-00-290 | 215 216 251 252 | | | |
| A531001 | External Fuselage Zonal Inspection Task 53-10-00-210 | ALL | | | |
| A531004 | Internal Cabin Zonal Inspection Task 53-10-00-212 | 251 252 253 254 255 256 257 258 311 312 | | | |

| ITEM CODE NUMBER | TASK | ZONE | MECH | IN-SP | REMARKS |
|--|---|--------------------|------|-------|---------|
| A531013 | Empennage and Horizontal Stabilizer Zonal Inspection Task 53-10-00-214 | 340 341 373 374 | | | |
| *** End of Inspection Document 04 Inspection Items *** | | | | | |

Task 25-52-00-210

2. Cargo Pod Zonal Inspection

A. General

- (1) The Zonal Inspection Program (ZIP) includes a series of General Visual Inspection (GVI) tasks. This section gives ZIP procedures for a zonal inspection of the cargo pod.

NOTE: Each zonal inspection includes a GV/GVI to find the general condition and security of items included in the ZIP. The zonal inspections will be completed at a distance no more than an arms length. This includes an examination for signs of degradation such as corrosion, cracks, chafing of tubing, loose duct support, wiring damage, cable and pulley wear, fluid leaks, insufficient drainage, and for other conditions which could cause corrosion or damage.

B. Special Tools

- (1) None

C. Access

- (1) Open all cargo pod doors.
- (2) Remove the cargo pod upholstery.

D. Do a Zonal Inspection of the Cargo Pod.

- (1) Examine the heat shield that is installed on the right forward side of the cargo pod for security and condition.
 - (a) If there is heat damage to the front section of the pod, Refer to CAB89-30 (SK208-69).
- (2) Examine the condition of sealant between the pod and the fuselage.
 - (a) If sealing or spot sealing is needed, use the approved sealant type. Refer to Chapter 20, Fuel, Weather and High-Temperature Sealing - Maintenance Practices.
- (3) If installed, examine the TKS anti-ice fluid tank and components for condition and security of installation.
- (4) Thoroughly clean the interior pod area.
- (5) Examine the interior and the exterior structure for condition and security of installation, bulges in surface skin, cuts in the exterior or the interior skins, and blistered or pealed paint.
 - (a) If you find a cut with the fiber showing on the interior or the exterior skin, you must do an immediate repair to prevent moisture contamination to the interior structure. Refer to Cargo Pod - Approved Repairs.
- (6) Examine all wire bundle assemblies and the electrical components for signs of overheating, correct installation, frayed or chafed wiring insulation, electrical bonding, damage, and corrosion. Refer to Chapter 20, High Intensity Radiated Fields (HIRF) - Inspection/Check, Internal Zonal Visual Inspection of Lightning and High Intensity Radiated Fields.
- (7) Examine all of the systems and structural components for damage, corrosion, cracks, loose fasteners, loose/misalignment, and correct installation.
- (8) Examine all tubing, hose, and fluid fittings for signs of leaks, damage and chafing, and correct clamp installation.
- (9) Examine all placards and markings for security of installation, legibility, and correct location. For the correct placards and placard locations, refer to the Model 208 Illustrated Parts Catalog or the Pilot's Operating Handbook.
- (10) Examine for contamination and look carefully for quantities of combustible material.
 - (a) Remove all of the combustible material that has collected.

NOTE: Combustible material can be fuel vapor, engine oil, and/or dust or lint that has collected.

NOTE: An inspection for contamination and combustible material meets the requirements of the Enhanced Zonal Inspection Program.

- (11) Examine the pod drain holes for obstructions.
- (12) Examine the rubber door seals for condition and correct attachment.
- (13) Examine the cargo pod door hinges and the latches for signs of damage, wear, security, and loose or failed fasteners..
 - (a) Make sure that the latches operate correctly.

- (14) Examine the door structure for cracks, delamination, and general condition.
 - (a) If you think there is damage or delamination, Refer to Cargo Pod - Approved Repairs.
- E. Restore Access
 - (1) Install the cargo pod upholstery.
 - (2) Close all cargo pod doors.

End Task

Task 26-20-00-290

2. Portable Fire Extinguisher Restoration (Internal Inspection)

NOTE: One hand operated portable fire extinguisher is mounted in the flight compartment on the pilot's door, or mounted between the pilot and the copilot seats on the cargo barrier.

A. General

- (1) This task includes the steps necessary to do a restoration (internal inspection) of the portable fire extinguisher.

B. Special Tools

- (1) None

C. Access

- (1) None

D. Do the Portable Fire Extinguisher Restoration (Internal Inspection).

- (1) Remove the hand fire extinguisher from the quick release, clamp type bracket assembly.
- (2) Send the portable fire extinguisher to an approved fire extinguisher service facility for the internal inspection.
- (3) Install the hand fire extinguisher in the quick release, clamp type bracket assembly.

E. Restore Access

- (1) None

End Task

Task 53-10-00-210

2. External Fuselage Zonal Inspection

A. General

- (1) The Zonal Inspection Program (ZIP) includes a series of General Visual Inspection (GVI) tasks. This section gives ZIP procedures for an external zonal inspection of the fuselage.

NOTE: An external zonal GVI is a general visual examination of an exterior area, and/or an open installation or assembly to find damage, failure or defects. This level of inspection is made during typical lighting conditions such as daylight, hangar light or flashlight by approximately an arm-length distance to the inspection object. Unless it is specified, it is not necessary to remove or open access panels or doors to do an external GVI. You can use an inspection mirror to help with visual access to all opened surfaces in the inspection area. You can use maintenance stands, ladders, or platforms to get near the inspection area.

B. Special Tools

- (1) None

C. Access

- (1) None

D. Do the External Fuselage Zonal Inspection.

NOTE: This inspection is from the forward tip of the nose spinner to the aft tip of the tailcone.

- (1) Examine the external fuselage for damage, failure, and signs of overheating. Refer to Chapter 20, High Intensity Radiated Fields (HIRF) - Inspection/Check, External Zonal Visual Inspection of Lightning and High Intensity Radiated Fields.
- (2) Examine all of the systems and structural components for damage, corrosion, cracks, loose fasteners, loose/misalignment of linkage, and correct installation.
- (3) Examine all tubing, hose and fluid fittings for evidence of leaks, damage and chafing, and correct clamp installation.
- (4) Examine all placards and markings for security of installation, legibility, and correct location. For the correct placards and placard locations, refer to the Model 208 Illustrated Parts Catalog or the Pilot's Operating Handbook.
- (5) Examine for contamination and look carefully for quantities of combustible material.
 - (a) Remove all of the combustible material that has collected.

NOTE: Combustible material can be fuel vapor, engine oil, and/or dust or lint that has collected.

NOTE: An inspection for contamination and combustible material meets the requirements of the Enhanced Zonal Inspection Program.

E. Restore Access

- (1) None

End Task

Task 53-10-00-212

4. Internal Cabin Zonal Inspection

A. General

- (1) The Zonal Inspection Program (ZIP) includes a series of General Visual Inspection (GVI) tasks. This section gives ZIP procedures for an internal zonal inspection of the cabin.

NOTE: An internal zonal GVI is a general visual examination that includes all of the systems and the structural components of an interior area, installation, or assembly. This includes a check for signs of corrosion, cracks, chafing of tubing, loose duct support, wiring damage, cable and pulley wear, fluid leaks, drainage that is not sufficient, and other conditions that can cause corrosion or damage. This level of inspection is made during typical lighting conditions such as daylight, hangar light, flood light, or flashlight by approximately an arm-length distance to the inspection object. It can be necessary to remove and/or open access panels or doors to complete an internal GVI. You can use an inspection mirror to help with visual access to all opened surfaces in the inspection area. You can use maintenance stands, ladders, or platforms to get near the inspection area.

B. Special Tools

- (1) None

C. Access

- (1) Remove the cabin seats. Refer to Chapter 25, Passenger Seats - Maintenance Practices.
- (2) Remove the aft bulkhead cabin partition. Refer to Chapter 25, Rear Compartment Wall - Maintenance Practices.
- (3) Open (unzip) the fabric headliner (passenger) or remove the hard shelled headliner (cargo) to get access to the areas of this inspection. Refer to Chapter 25, Cabin Upholstery - Maintenance Practices.
- (4) Remove the carpet in the cabin to get access to the necessary floorboard panels.
- (5) Remove the cabin floorboard panels. Refer to Chapter 6, Access Plates and Panels Identification - Description and Operation.
 - (a) For the Models 208, and 208 Cargomaster, remove panels 251FL, 252AR, 252CR, 252FR, 255AL, 255DL, 255GL, 255JL, 255LL, 255NL, 255QL, 255SL, 256BR, 256ER, 256HR, 256KR, 256MR, 256PR, 256RR, 256TR.
 - (b) For the models 208B, 208B Super Cargomaster, and 208B Passenger, remove panels 251BL, 251EL, 251ML, 255AL, 255DL, 255GL, 255KL, 255NL, 255RL, 255TL, 255VL, 255XL, 255ZL, 255ACL, 252BR, 252ER, 252GR, 252JR, 252MR, 256BR, 256ER, 256HR, 256LR, 256PR, 256SR, 256UR, 256WR, 256YR, 256AAR, 256ACR.

D. Do the Internal Cabin Zonal Inspection.

NOTE: This inspection is for the cabin, and starts at the forward side of (F.S. 166.45) to and including the forward side of the aft bulkhead (F.S.308.00 for the 208 or F.S. 356.00 for the 208B) above and below the floorline.

- (1) Examine all of the wire bundle assemblies and the electrical components for signs of overheating, correct installation, frayed or chafed wiring insulation, electrical bonding, damage, and corrosion. Refer to Chapter 20, High Intensity Radiated Fields (HIRF) - Inspection/Check, Internal Zonal Visual Inspection of Lightning and High Intensity Radiated Fields.
- (2) Examine all of the systems and structural components for damage, corrosion, cracks, loose fasteners, loose/misalignment of linkage, and correct installation.
 - (a) Make sure that you examine the areas that follow between FS 166.45 to FS 208.00 for the Model 208 and FS 166.45 to FS 228.00 for the Model 208B. The fuselage left and right side skin surface, the upper forward left and right skin surface.
 - (b) Make sure that you examine the areas that follow between FS 168.70 to FS 194.40 for the Model 208 and FS 188.70 to FS 214.40 for the Model 208B. The lower fuselage internal structure, the left and right side longerons at BL 9.00, BL 14.00 and BL 23.47. The lower carry-thru bulkhead segment and lower main landing gear bulkhead segment.

The lower left and right side attach angle and stiffener. The center stiffener assembly and fuel reservoir support assembly. The belly skin internal surface between the forward carry-thru bulkhead structure and main landing gear bulkhead structure.

- (c) Make sure that you examine the areas that follow between FS 194.40 to FS 208.00 for the Model 208 and FS 214.40 to FS 228.00 for the Model 208B. The lower fuselage internal structure, the longitudinal bulkheads at BL 0.00, BL 13.97 and BL 23.50. The lower forward and aft main landing gear bulkhead segments. The sealing skin internal surface between the forward and aft main landing gear bulkhead.
 - (d) Make sure that you examine the areas that follow between FS 166.45 to FS 186.45 for the Model 208 Only. The lower fuselage internal structure, the longitudinal bulkheads at BL 0.00, BL 13.97 and BL 23.50. The lower skin internal surface between the bulkhead at FS 166.45 and the forward carry-thru bulkhead at FS 186.45 and the seat tracks.
 - (e) Make sure that you examine the areas that follow between FS 166.45 to FS 208.00 for the Model 208 and FS 166.45 to FS 228.00 for the Model 208B. The lower fuselage left and right side forward skin surface. The fuselage left and right lower center skin surface. The fuselage lower forward skin and lower center skin surface. The fuselage left and right side doublers. The left and right main landing gear bay stiffener.
 - (f) Make sure that you examine the areas that follow between FS 208.00 to FS 322.80 for the Model 208 and FS 228.00 to FS 365.00 for the Model 208B. The fuselage upper aft skin surface. The fuselage left and right side aft skin surface.
 - (g) Make sure that you examine the areas that follow between FS 208.00 to FS 284.00 for the Model 208 and FS 228.00 to FS 332.00 for the Model 208B. The lower fuselage internal structure, the longerons at BL 0.00, BL 13.97 and BL 23.47. The lower left and right side stiffener. The lower bulkhead segments between the aft main landing gear bulkhead and aft cargo/passenger door jamb bulkhead. The doublers at the longeron to door jamb bulkhead attachment. The lower skin internal surface between the aft main landing gear bulkhead and aft cargo/passenger door jamb bulkhead and the seat tracks.
 - (h) Make sure that you examine the areas that follow between FS 284.00 to FS 308.00 for the Model 208 and FS 332.00 to FS 356.00 for the Model 208B. The lower fuselage internal structure, the outboard, inboard and center longerons. The lower bulkhead segments between the aft cargo/passenger door jamb bulkhead and curtain attach bulkhead. The lower skin internal surface between the aft cargo/passenger door jamb bulkhead and the curtain attach bulkhead.
 - (i) Make sure that you examine the areas that follow between FS 284.00 to FS 308.00 for the Model 208 and FS 332.00 to FS 365.00 for the Model 208B. The fuselage lower-center aft-skin surface. The fuselage lower aft-skin surface.
- (3) Examine all tubing, hose and fluid fittings for evidence of leaks, damage and chafing, and correct clamp installation.
 - (4) Examine all placards and markings for security of installation, legibility, and correct location. For the correct placards and placard locations, refer to the Model 208 Illustrated Parts Catalog or the Pilot's Operating Handbook.
 - (5) Examine for contamination and look carefully for quantities of combustible material.
 - (a) Remove all of the combustible material that has collected.

NOTE: Combustible material can be fuel vapor, engine oil, and/or dust or lint that has collected.

NOTE: An inspection for contamination and combustible material meets the requirements of the Enhanced Zonal Inspection Program.

E. Restore Access

- (1) Install the cabin floorboard panels. Refer to Chapter 6, Access Plates and Panels Identification - Description and Operation.
 - (a) For the Models 208, and 208 Cargomaster, install panels 251FL, 252AR, 252CR, 252FR, 255AL, 255DL, 255GL, 255JL, 255LL, 255NL, 255QL, 255SL, 256BR, 256ER, 256HR, 256KR, 256MR, 256PR, 256RR, 256TR.
 - (b) For the models 208B, 208B Super Cargomaster, and 208B Passenger, install panels 251BL, 251EL, 251ML, 255AL, 255DL, 255GL, 255KL, 255NL, 255RL, 255TL, 255VL, 255XL, 255ZL, 255ACL, 252BR, 252ER, 252GR, 252JR, 252MR, 256BR, 256ER, 256HR, 256LR, 256PR, 256SR, 256UR, 256WR, 256YR, 256AAR, 256ACR.

- (2) Install the carpet in the cabin.
- (3) Close (zip) the fabric headliner (passenger) or install the hard shelled headliner (cargo). Refer to Chapter 25, Cabin Upholstery - Maintenance Practices.
- (4) Install the aft bulkhead cabin partition. Refer to Chapter 25, Rear Compartment Wall - Maintenance Practices.
- (5) Install the cabin seats. Refer to Chapter 25, Passenger Seats - Maintenance Practices.

End Task

Task 53-10-00-214

6. Empennage and Horizontal Stabilizer Zonal Inspection

A. General

- (1) The Zonal Inspection Program (ZIP) includes a series of General Visual Inspection (GVI) tasks. This section gives ZIP procedures for an external zonal inspection of the empennage and horizontal stabilizer.

NOTE: An external zonal GVI is a general visual examination of an exterior area, and/or, an open installation or assembly to find damage, failure or defects. This level of inspection is made during typical lighting conditions such as daylight, hangar light or flashlight by approximately an arm-length distance to the inspection object. Unless it is specified, it is not necessary to remove or open access panels or doors to do an external GVI. You can use an inspection mirror to help with visual access to all opened surfaces in the inspection area. You can use maintenance stands, ladders, or platforms to get near the inspection area.

B. Special Tools

- (1) None

C. Access

- (1) Remove the tail stinger Refer to Tail Stinger - Maintenance Practices.
- (2) Remove the horizontal stabilizer fairings and inspection access panels. Refer to Chapter 55, Horizontal Stabilizer - Removal/Installation.
- (3) Remove vertical access panels 340A, 341A, 341B, 341C, and rudder access panel 343A. Refer to Chapter 6, Access Plates and Panels Identification - Description and Operation.
- (4) Remove Horizontal panels 373AL, 373BL, 374AR, 374BR, and tail cone access panel 320A. Refer to Chapter 6, Access/Inspection Plates - Description and Operation.

D. Do the External Zonal Inspection of the Empennage and Horizontal Stabilizer.

NOTE: This inspection is external from the forward tip of the vertical stabilizer forward fin to the aft tip of the tailcone, and from the upper tip to the bottom surface of the horizontal stabilizers.

- (1) Examine the external horizontal stabilizer, vertical stabilizer, and empennage for damage and signs of overheating. Refer to Chapter 20, High Intensity Radiated Fields (HIRF) - Inspection/Check, External Zonal Visual Inspection of Lightning and High Intensity Radiated Fields.
- (2) Examine all of the systems and structural components for damage, corrosion, cracks, loose fasteners, loose/misalignment of linkage, and correct installation.
- (3) Examine all placards and markings for security of installation, legibility, and correct location. For the correct placards and placard locations, refer to the Model 208 Illustrated Parts Catalog or the Pilot's Operating Handbook.
- (4) Examine for contamination and look carefully for quantities of combustible material.
 - (a) Remove all of the combustible material that has collected.

NOTE: Combustible material can be fuel vapor, engine oil, and/or dust or lint that has collected.

NOTE: An inspection for contamination and combustible material meets the requirements of the Enhanced Zonal Inspection Program.

E. Do the Internal Zonal Inspection of the Empennage and Horizontal Stabilizer.

NOTE: This inspection is internal from the forward tip of the vertical stabilizer forward fin to the aft tip of the tailcone, and from the upper tip to the bottom surface of the vertical stabilizer to include attach points accessible through the tail cone.

- (1) Examine all horizontal and vertical stabilizer attach points, attach fasteners, bolts, hardware, and related attach fitting structures for damage, corrosion, cracks, loose fasteners, loose or unsafetied hardware, and correct installation.

- (2) Examine all of the wire bundle assemblies and the electrical components for signs of overheating, correct installation, frayed, or chafed wiring insulation, electrical bonding, damage, and corrosion. Refer to Chapter 20, High Intensity Radiated Fields (HIRF) - Inspection/Check, Internal Zonal Visual Inspection of Lightning and High Intensity Radiated Fields.
- (3) Examine all of the systems and related structural components for damage, corrosion, cracks, loose fasteners, loose/misalignment of linkage, and correct installation.
 - (a) Make sure that you examine the areas that follow, FS 427.88 for the Model 208 and FS 475.88 for the Model 208B. The tailcone aft canted bulkhead. The left and right side doublers. The support bracket and stiffeners. The forward and aft stabilizer attach fittings.
- (4) Examine all tubing, hose, and fluid fittings for signs of leaks, damage, chafing, and correct clamp installation.
- (5) Examine all placards and markings for security of installation, legibility, and correct location. For the correct placards and placard locations, refer to the Model 208 Illustrated Parts Catalog or the Pilot's Operating Handbook.
- (6) Examine for contamination and look carefully for quantities of combustible material.
 - (a) Remove all of the combustible material that has collected.

NOTE: Combustible material can be fuel vapor, engine oil, and/or dust or lint that has collected.

NOTE: An inspection for contamination and combustible material meets the requirements of the Enhanced Zonal Inspection Program.

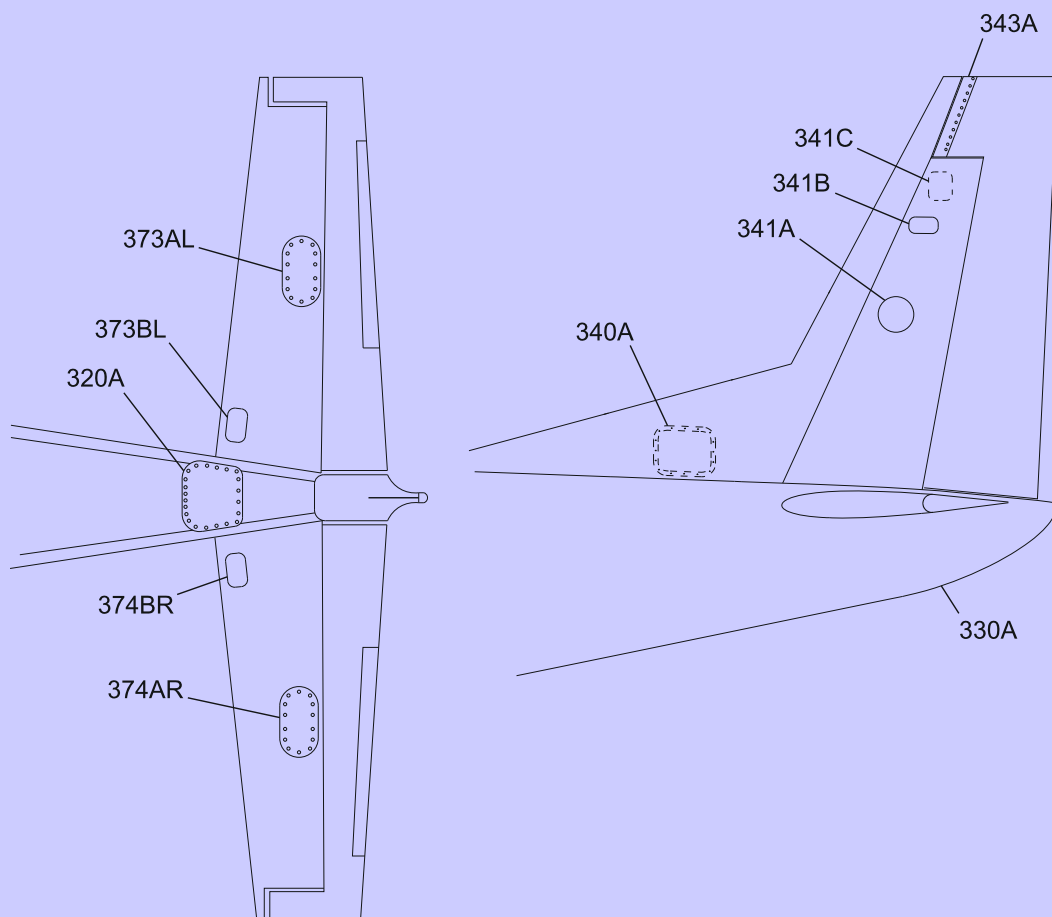
F. Restore Access

- (1) Install the tail stinger Refer to Tail Stinger - Maintenance Practices.
- (2) Install the horizontal stabilizer fairings and inspection access panels. Refer to Chapter 55, Horizontal Stabilizer - Removal/Installation.
- (3) Install vertical access panels 340A, 341A, 341B, 341C, and rudder access panel 343A. Refer to Chapter 6, Access Plates and Panels Identification - Description and Operation.
- (4) Install Horizontal panels 373AL, 373BL, 374AR, 374BR, and tail cone access panel 320A. Refer to Chapter 6, Access/Inspection Plates - Description and Operation.

End Task

Figure 9. Aft Fuselage, Horizontal and Vertical Stabilizer Panels

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VIEW LOOKING UP AT TAILCONE

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