

**DHC-6 TWIN OTTER**  
**EMMA Controlled Inspection Program**

# CORROSION PROGRAM

## CARD No. Year 1 of 5

| <b>AREA:</b> Fuel Gallery, Doors<br>Main and Nose Legs         |                                                                                                                                           | <b>DATE:</b>                                           |                    | <b>INSPECTION MANHOURS:</b><br>Prep:          Total: |               |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------|------------------------------------------------------|---------------|
| <b>NOTE:</b> Apply Corrosion Inhibiting Compound as necessary. |                                                                                                                                           |                                                        |                    |                                                      |               |
| Item                                                           | Description                                                                                                                               | Access                                                 | Type of Inspection | Mech. Initial                                        | Insp. Initial |
| <b>28-00 FUEL GALLERY</b>                                      |                                                                                                                                           |                                                        |                    |                                                      |               |
| C28-00-00                                                      | Fuel structure, piping, booster, pumps, fuel strainer, crossfeed valve, sump plates and electrical wiring and connection.                 | Remove panels F13, F14 and F17                         | Detailed Visual    |                                                      |               |
| <b>32-10 MAIN LEG</b>                                          |                                                                                                                                           |                                                        |                    |                                                      |               |
| C32-10-01                                                      | Main landing gear leg upper platen.                                                                                                       | Remove fairing, and panels F4, F5, F8, F9, F18 and F20 | Detailed Visual    |                                                      |               |
| C32-10-02                                                      | Main landing gear leg upper platen links.                                                                                                 | As Above                                               | Detailed Visual    |                                                      |               |
| C32-10-03                                                      | Main landing gear leg lower platen.                                                                                                       | As Above                                               | Detailed Visual    |                                                      |               |
| C32-10-04                                                      | Main landing gear leg rebound block base plates.                                                                                          | As Above                                               | Detailed Visual    |                                                      |               |
| C32-10-05                                                      | Main landing gear leg axle.                                                                                                               | Jack Aircraft<br>Remove wheel                          | Detailed Visual    |                                                      |               |
| <b>32-15 FLOAT (IF INSTALLED)</b>                              |                                                                                                                                           |                                                        |                    |                                                      |               |
| C32-15-01                                                      | Float installation - Front spreader bar, tie rod lugs, tie rod, vertical strut and hardware.                                              | Beach Aircraft<br>In situ                              | Detailed Visual    |                                                      |               |
| C32-15-02                                                      | Float installation - Top front strut bracket, front strut and hardware.                                                                   | When beached<br>In situ                                | Detailed Visual    |                                                      |               |
| C32-15-03                                                      | Float installation - Bottom front strut lug, front strut and hardware.                                                                    | When beached<br>In situ                                | Detailed Visual    |                                                      |               |
| C32-15-04                                                      | Float installation - Rear spreader bar, support strut bracket, rear support struts, swivet end fittings, main leg pivot lug and hardware. | When beached<br>In situ                                | Detailed Visual    |                                                      |               |

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| Item                                       | Description                                                                                    | Access                                                 | Type of Inspection                        | Mech. Initial | Insp. Initial |
|--------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------|---------------|---------------|
| <b>32-15 FLOAT (IF INSTALLED) (CONT'D)</b> |                                                                                                |                                                        |                                           |               |               |
| C32-15-05                                  | Float installation - Main strut, drag strut, fuselage lug, wing strut attachment and hardware. | Remove fairing F4, F5, F8 and F9 Remove strut fairings | Detailed Visual                           |               |               |
| C32-15-06                                  | Float installation - Main strut, drag strut and hardware at float.                             | Remove strut fairings panel                            | Detailed Visual                           |               |               |
| C32-15-07                                  | Float installation - Internal and external structure areas.                                    | Remove panels and internal bulkhead panels             | Detailed Visual                           |               |               |
| <b>32-20 NOSELEG</b>                       |                                                                                                |                                                        |                                           |               |               |
| C32-20-01                                  | Noseleg upper and lower torque links.                                                          | In situ                                                | Detailed Visual                           |               |               |
| C32-20-02                                  | Noseleg steering actuator lever.                                                               | Open F1 or F2 door and remove avionics shield          | Detailed Visual                           |               |               |
| C32-20-03                                  | Noseleg cylinder lower bearing assembly.                                                       | During overhaul                                        | Detailed Visual                           |               |               |
| C32-20-04                                  | Noseleg fork where locknut bears against lower surface of fork.                                | During overhaul                                        | Detailed Visual                           |               |               |
| <b>52-00 DOOR</b>                          |                                                                                                |                                                        |                                           |               |               |
| C52-00-01                                  | Airstair door outer skin, adjacent to hinge.                                                   | In situ                                                | Detailed Visual                           |               |               |
| C52-00-02                                  | Airstair door hinge.                                                                           | Lower door                                             | Detailed Visual                           |               |               |
| C52-00-03                                  | Cabin door RH, upper and lower hinges.                                                         | In situ<br>Open doors                                  | Detailed Visual                           |               |               |
| C52-00-04                                  | Nose baggage compartment door hinge.                                                           | In situ<br>Open F1 nose cap or F2 door                 | Detailed Visual                           |               |               |
| DELETED                                    |                                                                                                |                                                        |                                           |               |               |
| <b>57-00 WING</b>                          |                                                                                                |                                                        |                                           |               |               |
| C57-10-01<br>Right Hand                    | Top skins adjacent to nacelle, rib 5 to rib 9.                                                 | In situ<br>Access upper wing surface                   | Detailed (Rivet lines) and General Visual |               |               |

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**EMMA Controlled Inspection Program**

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| Item                       | Description                                    | Access                               | Type of Inspection                        | Mech. Initial | Insp. Initial |
|----------------------------|------------------------------------------------|--------------------------------------|-------------------------------------------|---------------|---------------|
| <b>57-00 WING (CONT'D)</b> |                                                |                                      |                                           |               |               |
| C57-10-02<br>Right Hand    | Lower skins adjacent to nacelle, ribs 5 to 9.  | In situ                              | Detailed (Rivet lines) and General Visual |               |               |
| C57-10-01<br>Left Hand     | Top skins adjacent to nacelle, rib 5 to rib 9. | In situ<br>Access upper wing surface | Detailed (Rivet lines) and General Visual |               |               |
| C57-10-02<br>Left Hand     | Lower skins adjacent to nacelle, rib 5 to 9.   | In situ                              | Detailed (Rivet lines) and General Visual |               |               |
| <b>TOTAL SIGN OFF</b>      |                                                |                                      |                                           |               |               |

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**DHC-6 TWIN OTTER**  
**EMMA Controlled Inspection Program**

# CORROSION PROGRAM

## CARD No. Year 2 of 5

| <b>AREA:</b> Left Hand Wing,<br>Flaps and Ailerons             |                                                | <b>DATE:</b>                          |                                                                | <b>INSPECTION MANHOURS:</b> |               |
|----------------------------------------------------------------|------------------------------------------------|---------------------------------------|----------------------------------------------------------------|-----------------------------|---------------|
|                                                                |                                                |                                       |                                                                | Prep:                       | Total:        |
| <b>NOTE:</b> Apply Corrosion Inhibiting Compound as necessary. |                                                |                                       |                                                                |                             |               |
| Item                                                           | Description                                    | Access                                | Type of Inspection                                             | Mech. Initial               | Insp. Initial |
| <b>57-00 WING</b>                                              |                                                |                                       |                                                                |                             |               |
| C57-10-01<br>Right Hand                                        | Top skins adjacent to nacelle, rib 5 to rib 9. | In situ<br>Access upper wing surface  | Detailed (Rivet lines) and General Visual                      |                             |               |
| C57-10-02<br>Right Hand                                        | Lower skins adjacent to nacelle, ribs 5 to 9.  | In situ                               | Detailed (Rivet lines) and General Visual                      |                             |               |
| C57-10-01<br>Left Hand                                         | Top skins adjacent to nacelle, rib 5 to rib 9. | In situ<br>Access upper wing surface  | Detailed (Rivet lines) and General Visual                      |                             |               |
| C57-10-02<br>Left Hand                                         | Lower skins adjacent to nacelle, ribs 5 to 9.  | In situ                               | Detailed (Rivet lines) and General Visual                      |                             |               |
| C57-10-03                                                      | Rear spar cap attachment adapters.             | Remove wing top center fairing        | Detailed and General (Internal) and Detailed (External) Visual |                             |               |
| C57-10-04                                                      | Forward attachment adapters.                   | Remove wing top center fairing        | Detailed Visual                                                |                             |               |
| C57-10-05                                                      | 'D' nose door assembly and hinge.              | Remove panels W2 or W16               | General Visual                                                 |                             |               |
| C57-10-06                                                      | Leading edge skins outboard of nacelle.        | In situ                               | General Visual                                                 |                             |               |
| C57-10-07                                                      | Hinge arm Station 97.5.                        | In situ<br>Remove shroud access panel | Detailed Visual                                                |                             |               |

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| Item                          | Description                                             | Access                                          | Type of Inspection | Mech. Initial | Insp. Initial |
|-------------------------------|---------------------------------------------------------|-------------------------------------------------|--------------------|---------------|---------------|
| <b>57-00 WING (CONT'D)</b>    |                                                         |                                                 |                    |               |               |
| C57-10-08                     | Hinge arm adapters Stations 97.5, 172.5, 247.5 and 310. | In situ<br>Remove shroud access panel           | Detailed Visual    |               |               |
| C57-10-09                     | Hinge arm Station 172.5.                                | In situ<br>Remove shroud access panel           | Detailed Visual    |               |               |
| C57-10-10                     | Hinge arm Station 247.5.                                | In situ<br>Remove shroud access panel           | Detailed Visual    |               |               |
| C57-10-11                     | Hinge arm Station 310.                                  | In situ<br>Remove shroud access panel           | Detailed Visual    |               |               |
| C57-10-12                     | Hinge arm Station 376.25.                               | In situ<br>Remove wing tip fairing              | Detailed Visual    |               |               |
| C57-10-13                     | Main spar lower forward and aft cap angles.             | Access through wing lower skin inspection holes | Detailed Visual    |               |               |
| C57-10-14                     | Main spar wing strut attachment lug.                    | Remove fairings W5 and W6 or W19 and W20        | Detailed Visual    |               |               |
| C57-10-15                     | Main spar splice plate Station 152.8.                   | Access through wing lower skin inspection holes | Detailed Visual    |               |               |
| C57-10-16                     | Rivets attaching ribs to upper skin corrugation.        | Access through wing lower skin inspection holes | General Visual     |               |               |
| C57-10-18                     | Adapter assy – front spar-wing.                         | Access through wing lower skin inspection holes | General Visual     |               |               |
| <b>57-51 INBOARD FOREFLAP</b> |                                                         |                                                 |                    |               |               |
| C57-51-01                     | Inboard hinge arm Station 34.5.                         | Lower Flaps                                     | Detailed Visual    |               |               |
| C57-51-02                     | Mid hinge arm Station 97.5.                             | In situ when lowered                            | Detailed Visual    |               |               |
| C57-51-03                     | Outboard hinge arm Station 172.58.                      | In situ when lowered                            | Detailed Visual    |               |               |
| C57-51-04                     | Pushrod attach fitting Station 97.5.                    | In situ when lowered                            | Detailed Visual    |               |               |

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| Item                           | Description                                 | Access                                      | Type of Inspection | Mech. Initial | Insp. Initial |
|--------------------------------|---------------------------------------------|---------------------------------------------|--------------------|---------------|---------------|
| <b>57-52 OUTBOARD FOREFLAP</b> |                                             |                                             |                    |               |               |
| C57-52-01                      | Inboard hinge arm Station 173.5.            | In situ when lowered                        | Detailed Visual    |               |               |
| C57-52-02                      | Inboard center hinge arm Station 247.11.    | In situ when lowered                        | Detailed Visual    |               |               |
| C57-52-03                      | Outboard center hinge arm Station 310.      | In situ when lowered                        | Detailed Visual    |               |               |
| C57-52-04                      | Outboard hinge arm Station 376.2            | In situ when lowered                        | Detailed Visual    |               |               |
| C57-52-05                      | Pushrod attach fitting Station 247.11.      | In situ when lowered                        | Detailed Visual    |               |               |
| <b>57-53 TRAILING FLAP</b>     |                                             |                                             |                    |               |               |
| C57-53-01                      | Inboard hinge end arm.                      | In situ when lowered                        | Detailed Visual    |               |               |
| C57-53-02                      | Center hinge arm.                           | In situ when lowered                        | Detailed Visual    |               |               |
| C57-53-03                      | Outboard hinge end arm.                     | In situ when lowered                        | Detailed Visual    |               |               |
| <b>57-54 AILERON</b>           |                                             |                                             |                    |               |               |
| C57-54-01                      | Inboard hinge arm Station 172.5.            | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-02                      | Inboard center hinge arm Station 247.11.    | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-03                      | Outboard center hinge arm Station 310.      | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-04                      | Outboard hinge arm Station 376.2.           | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-05                      | Balance weight location channel ('D' nose). | When lowered remove leading edge and weight | Detailed Visual    |               |               |
| C57-54-06                      | Trim tab hinge arm.                         | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-07                      | Trim tab hinge.                             | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-08                      | Gear tab hinge.                             | In situ when lowered                        | Detailed Visual    |               |               |

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| Item                              | Description                                                                                                                               | Access                                                 | Type of Inspection | Mech. Initial | Insp. Initial |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------|---------------|---------------|
| <b>32-15 FLOAT (IF INSTALLED)</b> |                                                                                                                                           |                                                        |                    |               |               |
| C32-15-01                         | Float installation – Front spreader bar, tie rod lugs, tie bar, vertical strut and hardware.                                              | Beach aircraft In situ                                 | Detailed Visual    |               |               |
| C32-15-02                         | Float Installation – Top front strut bracket, front strut and hardware.                                                                   | When beached In situ                                   | Detailed Visual    |               |               |
| C32-15-03                         | Float Installation – Bottom front strut lug, front strut and hardware.                                                                    | When beached In situ                                   | Detailed Visual    |               |               |
| C32-15-04                         | Float installation – Rear spreader bar, support strut bracket, rear support struts, swivel end fittings, main leg pivot lug and hardware. | When beached In situ                                   | Detailed Visual    |               |               |
| C32-15-05                         | Float installation – Main Strut, drag strut, fuselage lug, wing strut attachment and hardware.                                            | Remove fairing F4, F5, F8 and F9 Remove strut fairings | Detailed Visual    |               |               |
| C32-15-06                         | Float installation – Main strut, drag strut and hardware at float.                                                                        | Remove strut fairings panel                            | Detailed Visual    |               |               |
| C32-15-07                         | Float installation – Internal and external structure areas.                                                                               | Remove panels and internal bulkhead panels             | Detailed Visual    |               |               |
| <b>TOTAL SIGN OFF</b>             |                                                                                                                                           |                                                        |                    |               |               |

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**DHC-6 TWIN OTTER**  
**EMMA Controlled Inspection Program**

# CORROSION PROGRAM

## CARD No. Year 3 of 5

| <b>AREA:</b> Right Hand Wing,<br>Flaps and Ailerons            |                                                | <b>DATE:</b>                          |                                                                | <b>INSPECTION MANHOURS:</b><br>Prep:                      Total: |               |  |
|----------------------------------------------------------------|------------------------------------------------|---------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------|---------------|--|
| <b>NOTE:</b> Apply Corrosion Inhibiting Compound as necessary. |                                                |                                       |                                                                |                                                                  |               |  |
| Item                                                           | Description                                    | Access                                | Type of Inspection                                             | Mech. Initial                                                    | Insp. Initial |  |
| <b>57-00 WING</b>                                              |                                                |                                       |                                                                |                                                                  |               |  |
| C57-10-01<br>Right Hand                                        | Top skins adjacent to nacelle, rib 5 to rib 9. | In situ<br>Access upper wing surface  | Detailed (Rivet lines) and General Visual                      |                                                                  |               |  |
| C57-10-02<br>Right Hand                                        | Lower skins adjacent to nacelle, ribs 5 to 9.  | In situ                               | Detailed (Rivet lines) and General Visual                      |                                                                  |               |  |
| C57-10-01<br>Left Hand                                         | Top skins adjacent to nacelle, rib 5 to rib 9. | In situ<br>Access upper wing surface  | Detailed (Rivet lines) and General Visual                      |                                                                  |               |  |
| C57-10-02<br>Left Hand                                         | Lower skins adjacent to nacelle, ribs 5 to 9.  | In situ                               | Detailed (Rivet lines) and General Visual                      |                                                                  |               |  |
| C57-10-03                                                      | Rear spar cap attachment adapters.             | Remove wing top center fairing        | Detailed and General (Internal) and Detailed (External) Visual |                                                                  |               |  |
| C57-10-04                                                      | Forward attachment adapters.                   | Remove wing top center fairing        | Detailed Visual                                                |                                                                  |               |  |
| C57-10-05                                                      | 'D' nose door assembly and hinge.              | Remove panels W2 or W16               | General Visual                                                 |                                                                  |               |  |
| C57-10-06                                                      | Leading edge skins outboard of nacelle.        | In situ                               | General Visual                                                 |                                                                  |               |  |
| C57-10-07                                                      | Hinge arm Station 97.5.                        | In situ<br>Remove shroud access panel | Detailed Visual                                                |                                                                  |               |  |

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| Item                          | Description                                             | Access                                          | Type of Inspection | Mech. Initial | Insp. Initial |
|-------------------------------|---------------------------------------------------------|-------------------------------------------------|--------------------|---------------|---------------|
| <b>57-00 WING (CONT'D)</b>    |                                                         |                                                 |                    |               |               |
| C57-10-08                     | Hinge arm adapters Stations 97.5, 172.5, 247.5 and 310. | In situ<br>Remove shroud access panel           | Detailed Visual    |               |               |
| C57-10-09                     | Hinge arm Station 172.5.                                | In situ<br>Remove shroud access panel           | Detailed Visual    |               |               |
| C57-10-10                     | Hinge arm Station 247.5.                                | In situ<br>Remove shroud access panel           | Detailed Visual    |               |               |
| C57-10-11                     | Hinge arm Station 310.                                  | In situ<br>Remove shroud access panel           | Detailed Visual    |               |               |
| C57-10-12                     | Hinge arm Station 376.25.                               | In situ<br>Remove wing tip fairing              | Detailed Visual    |               |               |
| C57-10-13                     | Main spar lower forward and aft cap angles.             | Access through wing lower skin inspection holes | Detailed Visual    |               |               |
| C57-10-14                     | Main spar wing strut attachment lug.                    | Remove fairings W5 and W6 or W19 and W20        | Detailed Visual    |               |               |
| C57-10-15                     | Main spar splice plate station 152.8.                   | Access through wing lower skin inspection holes | Detailed Visual    |               |               |
| C57-10-16                     | Rivets attaching ribs to upper skin corrugation.        | Access through wing lower skin inspection holes | General Visual     |               |               |
| C57-10-18                     | Adapter assy – front spar-wing.                         | Access through wing lower skin inspection holes | Detailed Visual    |               |               |
| <b>57-51 INBOARD FOREFLAP</b> |                                                         |                                                 |                    |               |               |
| C57-51-01                     | Inboard hinge arm Station 34.5.                         | Lower Flaps                                     | Detailed Visual    |               |               |
| C57-51-02                     | Mid hinge arm Station 97.5.                             | In situ when lowered                            | Detailed Visual    |               |               |
| C57-51-03                     | Outboard hinge arm Station 172.58.                      | In situ when lowered                            | Detailed Visual    |               |               |
| C57-51-04                     | Pushrod attach fitting Station 97.5.                    | In situ when lowered                            | Detailed Visual    |               |               |

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| Item                           | Description                                 | Access                                      | Type of Inspection | Mech. Initial | Insp. Initial |
|--------------------------------|---------------------------------------------|---------------------------------------------|--------------------|---------------|---------------|
| <b>57-52 OUTBOARD FOREFLAP</b> |                                             |                                             |                    |               |               |
| C57-52-01                      | Inboard hinge arm Station 173.5.            | In situ when lowered                        | Detailed Visual    |               |               |
| C57-52-02                      | Inboard center hinge arm Station 247.11.    | In situ when lowered                        | Detailed Visual    |               |               |
| C57-52-03                      | Outboard center hinge arm Station 310.      | In situ when lowered                        | Detailed Visual    |               |               |
| C57-52-04                      | Outboard hinge arm Station 376.2            | In situ when lowered                        | Detailed Visual    |               |               |
| C57-52-05                      | Pushrod attach fitting Station 247.11.      | In situ when lowered                        | Detailed Visual    |               |               |
| <b>57-53 TRAILING FLAP</b>     |                                             |                                             |                    |               |               |
| C57-53-01                      | Inboard hinge end arm.                      | In situ when lowered                        | Detailed Visual    |               |               |
| C57-53-02                      | Center hinge arm.                           | In situ when lowered                        | Detailed Visual    |               |               |
| C57-53-03                      | Outboard hinge end arm.                     | In situ when lowered                        | Detailed Visual    |               |               |
| <b>57-54 AILERON</b>           |                                             |                                             |                    |               |               |
| C57-54-01                      | Inboard hinge arm Station 172.5.            | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-02                      | Inboard center hinge arm Station 247.11.    | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-03                      | Outboard center hinge arm Station 310.      | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-04                      | Outboard hinge arm Station 376.2.           | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-05                      | Balance weight location channel ('D' nose). | When lowered remove leading edge and weight | Detailed Visual    |               |               |
| C57-54-06                      | Trim tab hinge arm.                         | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-07                      | Trim tab hinge.                             | In situ when lowered                        | Detailed Visual    |               |               |
| C57-54-08                      | Gear tab hinge.                             | In situ when lowered                        | Detailed Visual    |               |               |

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| Item                              | Description                                                                                                                               | Access                                                  | Type of Inspection | Mech. Initial | Insp. Initial |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------|---------------|---------------|
| <b>32-15 FLOAT (IF INSTALLED)</b> |                                                                                                                                           |                                                         |                    |               |               |
| C32-15-01                         | Float installation – Front spreader bar, tie rod lugs, tie bar, vertical strut and hardware.                                              | Beach aircraft In situ                                  | Detailed Visual    |               |               |
| C32-15-02                         | Float Installation – Top front strut bracket, front strut and hardware.                                                                   | When beached In situ                                    | Detailed Visual    |               |               |
| C32-15-03                         | Float Installation – Bottom front strut lug, front strut and hardware.                                                                    | When beached In situ                                    | Detailed Visual    |               |               |
| C32-15-04                         | Float installation – Rear spreader bar, support strut bracket, rear support struts, swivel end fittings, main leg pivot lug and hardware. | When beached In situ                                    | Detailed Visual    |               |               |
| C32-15-05                         | Float installation – Main Strut, drag strut, fuselage lug, wing strut attachment and hardware.                                            | Remove fairing F4, F5, F8 and F9. Remove strut fairings | Detailed Visual    |               |               |
| C32-15-06                         | Float installation – Main strut, drag strut and hardware at float.                                                                        | Remove strut fairings panel                             | Detailed Visual    |               |               |
| C32-15-07                         | Float installation – Internal and external structure areas.                                                                               | Remove panels and internal bulkhead panels              | Detailed Visual    |               |               |
| <b>TOTAL SIGN OFF</b>             |                                                                                                                                           |                                                         |                    |               |               |

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# CORROSION PROGRAM

## CARD No. Year 4 of 5

| <b>AREA:</b> Nacelles, Stabilizers, Elevator, Rudder and Wing Struts |                                                                                                                                                                                                     | <b>DATE:</b>                                     |                    | <b>INSPECTION MANHOURS:</b> |               |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------|-----------------------------|---------------|
|                                                                      |                                                                                                                                                                                                     |                                                  |                    | Prep:                       | Total:        |
| <b>NOTE</b> Apply Corrosion Inhibiting Compound as necessary.        |                                                                                                                                                                                                     |                                                  |                    |                             |               |
| Item                                                                 | Description                                                                                                                                                                                         | Access                                           | Type of Inspection | Mech. Initial               | Insp. Initial |
| <b>53-14 FUSELAGE AFT</b>                                            |                                                                                                                                                                                                     |                                                  |                    |                             |               |
| C53-14-01                                                            | Aft fuselage to fin attach adapter.<br><b>NOTE 1:</b> If Pre Mod 1843 to 1846, remove horiz/vert stabilizer/aft fuse top rib.<br><b>NOTE 2:</b> If Post Mod 1843 to 1846, inspect where accessible. | See Notes 1 and 2                                | Detailed Visual    |                             |               |
| C53-14-02                                                            | Rudder hinge tubular attach support structure.                                                                                                                                                      | Remove panels T3, T4 and T14                     | Detailed Visual    |                             |               |
| <b>54-00 NACELLES, LEFT AND RIGHT</b>                                |                                                                                                                                                                                                     |                                                  |                    |                             |               |
| C54-00-01                                                            | <b>Left Hand Nacelle:</b><br>Forward frame engine mount plates and engine mount adapters.                                                                                                           | Lower engine cowlings W7 and remove cowling W29  | Detailed Visual    |                             |               |
| C54-00-02                                                            | <b>Left Hand Nacelle:</b><br>Nacelle skin exhaust path and nacelle drag angles.                                                                                                                     | In situ                                          | Detailed Visual    |                             |               |
| C54-00-01                                                            | <b>Right Hand Nacelle:</b><br>Forward frame engine mount plates and engine mount adapters.                                                                                                          | Lower engine cowlings W21 and remove cowling W33 | Detailed Visual    |                             |               |
| C54-00-02                                                            | <b>Right Hand Nacelle:</b><br>Nacelle skin exhaust path and nacelle drag angles.                                                                                                                    | In situ                                          | Detailed Visual    |                             |               |
| <b>55-10 HORIZONTAL STABILIZER</b>                                   |                                                                                                                                                                                                     |                                                  |                    |                             |               |
| C55-10-01                                                            | Horizontal Stabilizer/Elevator adapter plate inboard.                                                                                                                                               | In situ                                          | Detailed Visual    |                             |               |
| C55-10-02                                                            | Horizontal Stabilizer/Elevator adapter plate outboard.                                                                                                                                              | In situ                                          | Detailed Visual    |                             |               |

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**DHC-6 TWIN OTTER**  
**EMMA Controlled Inspection Program**

# CARD No. Year 4 of 5

| Item                                        | Description                                                                                                                                                                                                         | Access                                        | Type of Inspection | Mech. Initial | Insp. Initial |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------|---------------|---------------|
| <b>55-10 HORIZONTAL STABILIZER (CONT'D)</b> |                                                                                                                                                                                                                     |                                               |                    |               |               |
| C55-10-03                                   | Elevator center hinge arm.                                                                                                                                                                                          | Remove fairings T2 and T15                    | Detailed Visual    |               |               |
| C55-10-04                                   | Tailplane front and rear mounting brackets.                                                                                                                                                                         | Disassembly of Empennage units is recommended | Detailed Visual    |               |               |
| <b>55-20 ELEVATOR</b>                       |                                                                                                                                                                                                                     |                                               |                    |               |               |
| C55-20-01                                   | Inboard attach adapter fitting.                                                                                                                                                                                     | In situ                                       | Detailed Visual    |               |               |
| C55-20-02                                   | Outboard attach adapter fitting.                                                                                                                                                                                    | In situ                                       | Detailed Visual    |               |               |
| C55-20-03                                   | Trim tab hinge.                                                                                                                                                                                                     | In situ                                       | Detailed Visual    |               |               |
| C55-20-04                                   | Flap/Elevator interconnect tab hinge.                                                                                                                                                                               | In situ                                       | Detailed Visual    |               |               |
| C55-20-05                                   | RH and LH inboard hinge arms.                                                                                                                                                                                       | In situ                                       | Detailed Visual    |               |               |
| C55-20-06                                   | RH and LH outboard hinge arms.                                                                                                                                                                                      | In situ                                       | Detailed Visual    |               |               |
| <b>55-30 VERTICAL STABILIZER</b>            |                                                                                                                                                                                                                     |                                               |                    |               |               |
| C55-30-01                                   | Rudder mid hinge attach plate.                                                                                                                                                                                      | Remove Rudder                                 | Detailed Visual    |               |               |
| C55-30-02                                   | Rudder top hinge attach plate.                                                                                                                                                                                      | Remove Rudder                                 | Detailed Visual    |               |               |
| C55-30-03                                   | Fin front and rear spar adapter fittings.<br><br><b>NOTE 1:</b> If Pre Mod 1841 and 1842, remove horiz/vert stabilizer/aft fuse top rib.<br><br><b>NOTE 2:</b> If Post Mod 1841 and 1842, inspect where accessible. | See Notes 1 and 2                             | Detailed Visual    |               |               |

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**DHC-6 TWIN OTTER**  
**EMMA Controlled Inspection Program**

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| Item                                    | Description                                          | Access                                          | Type of Inspection                        | Mech. Initial | Insp. Initial |
|-----------------------------------------|------------------------------------------------------|-------------------------------------------------|-------------------------------------------|---------------|---------------|
| <b>55-40 RUDDER</b>                     |                                                      |                                                 |                                           |               |               |
| C55-40-01                               | Lower hinge arm.                                     | Remove panels T3 and T4                         | Detailed Visual                           |               |               |
| C55-40-02                               | Mid hinge bracket.                                   | In situ                                         | Detailed Visual                           |               |               |
| C55-40-03                               | Upper hinge bracket.                                 | In situ                                         | Detailed Visual                           |               |               |
| C55-40-04                               | Upper trim tab hinge.                                | In situ                                         | Detailed Visual                           |               |               |
| C55-40-05                               | Lower trim tab hinge.                                | In situ                                         | Detailed Visual                           |               |               |
| <b>57-00 WING</b>                       |                                                      |                                                 |                                           |               |               |
| C57-10-01 Right Hand                    | Top skins adjacent to nacelle, rib 5 to rib 9.       | In situ<br>Access upper wing surface            | Detailed (Rivet lines) and General Visual |               |               |
| C57-10-02 Right Hand                    | Lower skins adjacent to nacelle, ribs 5 to 9.        | In situ                                         | Detailed (Rivet lines) and General Visual |               |               |
| C57-10-01 Left Hand                     | Top skins adjacent to nacelle, rib 5 to rib 9.       | In situ<br>Access upper wing surface            | Detailed (Rivet lines) and General Visual |               |               |
| C57-10-02 Left Hand                     | Lower skins adjacent to nacelle, rib 5 to 9.         | In situ                                         | Detailed (Rivet lines) and General Visual |               |               |
| C57-10-17 Left Hand                     | Pre Mod 6/1117 wing-spar, strut-lug, fastener holes. | In situ<br>Access panels at the wing front spar | High Frequency Eddy Current               |               |               |
| <b>57-40 WING STRUT, LEFT AND RIGHT</b> |                                                      |                                                 |                                           |               |               |
| C57-40-01                               | <b>Left Hand Wing Strut:</b><br>Wing Strut Beam.     | Remove fairings F5, W5 and W6                   | Detailed Visual                           |               |               |
| C57-40-02                               | <b>Left Hand Wing Strut:</b><br>Strut Links.         | Remove fairing W6                               | Detailed Visual                           |               |               |

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| Item                  | Description                                                                                                                               | Access                                                           | Type of Inspection | Mech. Initial | Insp. Initial |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------|---------------|---------------|
| <b>57-40</b>          | <b>WING STRUT, LEFT AND RIGHT (CONT'D)</b>                                                                                                |                                                                  |                    |               |               |
| C57-40-01             | <b>Right Hand Wing Strut:</b><br>Wing Strut Beam.                                                                                         | Remove fairings<br>F8, W19 and<br>W20                            | Detailed<br>Visual |               |               |
| C57-40-02             | <b>Right Hand Wing Strut:</b><br>Strut Links.                                                                                             | Remove fairing<br>W20                                            | Detailed<br>Visual |               |               |
| <b>32-15</b>          | <b>FLOAT (IF INSTALLED)</b>                                                                                                               |                                                                  |                    |               |               |
| C32-15-01             | Float installation - Front spreader bar, tie rod lugs, tie bar, vertical strut and hardware.                                              | Beach aircraft<br>In situ                                        | Detailed<br>Visual |               |               |
| C32-15-02             | Float installation - Top front strut bracket, front strut and hardware.                                                                   | Beach aircraft<br>In situ                                        | Detailed<br>Visual |               |               |
| C32-15-03             | Float installation - Bottom front strut lug, front strut and hardware.                                                                    | Beach aircraft<br>In situ                                        | Detailed<br>Visual |               |               |
| C32-15-04             | Float installation - Rear spreader bar, support strut bracket, rear support struts, swivel end fittings, main leg pivot lug and hardware. | Beach aircraft<br>In situ                                        | Detailed<br>Visual |               |               |
| C32-15-05             | Float installation - Main strut, drag strut, fuselage lug, wing strut attachment and hardware.                                            | Remove fairing<br>F4, F5, F8 and<br>F9. remove strut<br>fairings | Detailed<br>Visual |               |               |
| C32-15-06             | Float installation - Mains strut, drag strut and hardware at float.                                                                       | Remove strut<br>fairings panel                                   | Detailed<br>Visual |               |               |
| C32-15-07             | Float installation - Internal and external structure areas.                                                                               | Remove panels<br>and internal<br>bulkhead panels                 | Detailed<br>Visual |               |               |
| <b>TOTAL SIGN OFF</b> |                                                                                                                                           |                                                                  |                    |               |               |

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**DHC-6 TWIN OTTER**  
**EMMA Controlled Inspection Program**

# CORROSION PROGRAM

## CARD No. Year 5 of 5

| <b>AREA:</b> Fuselage                                          |                                                                                                                                                      | <b>DATE:</b>                                   |                                                     | <b>INSPECTION MANHOURS:</b> |               |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------|-----------------------------|---------------|
|                                                                |                                                                                                                                                      |                                                |                                                     | Prep:                       | Total:        |
| <b>NOTE:</b> Apply Corrosion Inhibiting Compound as necessary. |                                                                                                                                                      |                                                |                                                     |                             |               |
| Item                                                           | Description                                                                                                                                          | Access                                         | Type of Inspection                                  | Mech. Initial               | Insp. Initial |
| <b>53-11 FUSELAGE FORWARD</b>                                  |                                                                                                                                                      |                                                |                                                     |                             |               |
| C53-11-01                                                      | Noseleg lower attachment adapter fitting, Station 60.                                                                                                | In situ                                        | Detailed Visual                                     |                             |               |
| C53-11-02                                                      | Noseleg upper mounting block, Station 60.                                                                                                            | Open panels F3 and F10                         | Detailed Visual                                     |                             |               |
| C53-11-03                                                      | Pilot door hinge, upper and lower attachment plates, Station 73.                                                                                     | In situ                                        | Detailed Visual                                     |                             |               |
| C53-11-04                                                      | Co-pilot door hinge, upper and lower attachment plates, Station 73.                                                                                  | In situ                                        | Detailed Visual                                     |                             |               |
| C53-11-05                                                      | Post Mod 6/2020 nose attachment exterior aluminum joint straps and fasteners common to nose.                                                         | In situ                                        | Detailed Visual                                     |                             |               |
| C53-11-06                                                      | Battery tray structure, interior surface of nose luggage compartment near battery tray, fasteners and hardware securing battery tray. (If installed) | Open nose luggage door                         | Detailed Visual                                     |                             |               |
| <b>53-12 FUSELAGE CENTER</b>                                   |                                                                                                                                                      |                                                |                                                     |                             |               |
| C53-12-01                                                      | Lower frame assembly, main landing gear attach, Station 219.                                                                                         | Remove panels F4, F5, F8 and F9                | General (Internal)<br>Detailed (External)<br>Visual |                             |               |
| C53-12-02                                                      | Fuselage side frames at Stations 218 and 219.                                                                                                        | Remove cabin dado side panels                  | Detailed Visual                                     |                             |               |
| C53-12-03                                                      | Upper Fwd spar beam, Station 200, and adapters, wing pickup, Station 200.                                                                            | Remove ceiling panel and wing top center panel | General (Internal)<br>Detailed (External)<br>Visual |                             |               |
| C53-12-04                                                      | Frame assembly, lower, main landing gear attach, Station 239.                                                                                        | Remove panels F5 and F8                        | General (Internal)<br>Detailed (External)<br>Visual |                             |               |

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| Item                                  | Description                                                                                              | Access                                                                                            | Type of Inspection                                  | Mech. Initial | Insp. Initial |
|---------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------|---------------|
| <b>53-12 FUSELAGE CENTER (CONT'D)</b> |                                                                                                          |                                                                                                   |                                                     |               |               |
| C53-12-05                             | Frames ("hockey stick") Station 239, wing attach.                                                        | Remove wing top center panel                                                                      | General (Internal)<br>Detailed (External)<br>Visual |               |               |
| C53-12-06                             | Top skin sandwich panels, center fuselage, from Station 111 to Station 190.                              | In situ<br>Access upper fuselage surface                                                          | General<br>Visual                                   |               |               |
| C53-12-07                             | Aft cabin doors, LH and RH, hinge attach plates, upper and lower.                                        | In situ<br>Open door                                                                              | Detailed<br>Visual                                  |               |               |
| C53-12-08                             | Airstair door hinge plate.                                                                               | In situ<br>Lower door                                                                             | Detailed<br>Visual                                  |               |               |
| C53-12-09                             | Cabin floor rails.                                                                                       | Remove or stow cabin seats and lift floor boards after removing rivets from board and side angles | General<br>Visual                                   |               |               |
| C53-12-10                             | Cabin floor boards.                                                                                      | As above                                                                                          | General<br>Visual                                   |               |               |
| C53-12-11                             | Fuselage structure, Station 111 to Station 376, shell interior and exterior skins, stringers and frames. | Remove cabin dado side panels, fuel liners and fuel cells.                                        | Detailed<br>Visual                                  |               |               |
| <b>53-13 FUSELAGE REAR</b>            |                                                                                                          |                                                                                                   |                                                     |               |               |
| C53-13-01                             | Aft LH baggage door hinge attach plates.                                                                 | In situ<br>Open door F6                                                                           | General<br>Visual                                   |               |               |
| C53-13-02                             | Rear baggage compartment door hinge.                                                                     | In situ<br>Open door F6                                                                           | Detailed<br>Visual                                  |               |               |
| C53-13-03                             | Rear baggage compartment door sill.                                                                      | In situ<br>Open door F6                                                                           | Detailed<br>Visual                                  |               |               |
| C53-13-04                             | Rear fuselage lower bulkhead, Station 376.                                                               | Open door F6 and remove rear floor panel                                                          | Detailed<br>Visual                                  |               |               |
| C53-13-05                             | Battery bay, lower structure.                                                                            | Open door F6 and remove fwd floor panel                                                           | Detailed<br>Visual                                  |               |               |

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**DHC-6 TWIN OTTER**  
**EMMA Controlled Inspection Program**

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| Item                              | Description                                                                                                                               | Access                                                   | Type of Inspection                        | Mech. Initial | Insp. Initial |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------|---------------|---------------|
| <b>57-00 WING</b>                 |                                                                                                                                           |                                                          |                                           |               |               |
| C57-10-01<br>Right Hand           | Top skins adjacent to nacelle, rib 5 to rib 9.                                                                                            | In situ<br>Access upper wing surface                     | Detailed (Rivet lines) and General Visual |               |               |
| C57-10-02<br>Right Hand           | Lower skins adjacent to nacelle, ribs 5 to 9.                                                                                             | In situ                                                  | Detailed (Rivet lines) and General Visual |               |               |
| C57-10-01<br>Left Hand            | Top skins adjacent to nacelle, rib 5 to rib 9.                                                                                            | In situ<br>Access upper wing surface                     | Detailed (Rivet lines) and General Visual |               |               |
| C57-10-02<br>Left Hand            | Lower skins adjacent to nacelle, rib 5 to 9.                                                                                              | In situ                                                  | Detailed (Rivet lines) and General Visual |               |               |
| <b>32-15 FLOAT (IF INSTALLED)</b> |                                                                                                                                           |                                                          |                                           |               |               |
| C32-15-01                         | Float installation - Front spreader bar, tie rod lugs, tie bar, vertical strut and hardware.                                              | Beach aircraft<br>In situ                                | Detailed Visual                           |               |               |
| C32-15-02                         | Float installation - Top front strut bracket, front strut and hardware.                                                                   | When beached<br>In situ                                  | Detailed Visual                           |               |               |
| C32-15-03                         | Float installation - Bottom front strut lug, front strut and hardware.                                                                    | When beached<br>In situ                                  | Detailed Visual                           |               |               |
| C32-15-04                         | Float installation - Rear spreader bar, support strut bracket, rear support struts, swivel end fittings, main leg pivot lug and hardware. | When beached<br>In situ                                  | Detailed Visual                           |               |               |
| C32-15-05                         | Float installation - Main strut, drag strut, fuselage lug, wing strut attachment and hardware.                                            | Remove fairing F4, F5, F8 and F9. Remove strut fairings. | Detailed Visual                           |               |               |
| C32-15-06                         | Float installation - Main strut, drag strut and hardware at float.                                                                        | Remove strut fairings panel                              | Detailed Visual                           |               |               |
| C32-15-07                         | Float installation - Internal and external structure areas.                                                                               | Remove panels and internal bulkhead panels               | Detailed Visual                           |               |               |
| <b>TOTAL SIGN OFF</b>             |                                                                                                                                           |                                                          |                                           |               |               |

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