**DOC 4444 CONTINGENCY PROCEDURE**

**If prior clearance cannot be obtained, the following contingency procedures should be employed until a revised clearance is received.**

**When below FL285, establish & maintain 500’ vertical offset when able and proceed as required until ATC clearance received.**

* **Parallel offset same direction**
* **Descend below FL285 / FL275 Max**
* **75,000# Target Altitude = FL285**
* **85,000# Target Altitude = FL248**
* **Check VSD for vertical path profile**
* **Consider starting APU at/below FL370 (ASC123)**

**Establish & maintain 500’ vertical offset when able and proceed as required until ATC clearance received (or 1,000’ vertical offset if > FL410)**

* **AFM 04-08-10 ENGINE SHUTDOWN**
* **OM 05-05-00 ENGINE DRIFTDOWN CHARTS**
* **Maintain FL if able or minimize climb/descent rate**
* **Attempt ATC clearance/notification – CPDLC Emergency / HF / SatPhone**
* **Set Single Engine Cruise Alt
FMS – PERF / S.E. RANGE (5R)**
* **Slow to Auto Speed S.E. drift down airspeed**
* **Maintain visual and Traffic watch**
* **Turn on ALL exterior lights**
* **When able, alert other aircraft on 121.5 or 123.45**

 **Legend:**

 **ATC Clearance**

 **No ATC Clearance**

**G650 Specific**

**NAT/HLA = ALL Oceanic Airspace**

**CLEARED ROUTE**

**SLOP**

***OFFSET ROUTE L or R AT LEAST 30O***

**Pilot elects to descend below FL285**

**5 NM**

**FMS Offset Procedure:**

* **PROG / Page 3**
* **Apply Offset – L or R 5 (1R)**
* **Verify the Offset and Flight Plan, then ACTIVATE (6R)**
* **Check Fuel / Auto Speed S.E. drift down speed**

**YES**

**NO**

| ***Caution******Diversion across the OTS at an offset FL is not recommended. Before initiating any 180° turn-back, maintain a same direction 5NM offset. Climb above FL410 or expedite descent below FL290 prior to crossing adjacent tracks, and/or making a 180° turn-back.*****ABOVE FL410 CLB or DES 1000’****AT FL410 CLB 1000’ or DES 500’****BELOW FL410 CLB or DES 500’** |
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A **Green** and **Amber** Banana will be displayed on the Nav Display. Green indicates the Bottom of Descent; Amber is the S.E. Ceiling

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| OTS DIVERSION: ACROSS PRIMARY TFC FLOW |  | OTS: RETURN & OFFSET |
| **If drifting down or descending, DO NOT cross tracks until level at an appropriate altitude for crossing tracks. Maintain established offset and expedite Climb above or Descend below the OTS (FL420-285). Utilize one of the previous procedures until clear of the organized track system.**1. Advise ATC when time permits – Turn on all exterior lights
2. Confirm you are level at an appropriate Offset Altitude

**ABOVE FL410 CLB or DES 1000’****AT FL410 DES 500’ or CLB 1000’****BELOW FL410 CLB or DES 500’**1. Request a clearance and proceed to alternate airport as per your re-clearance, or direct if unable to obtain a clearance.
2. Check Fuel & Determine appropriate speed
3. Maintain extra vigilance for traffic
4. Broadcast FL & Position to nearby traffic on 121.5/123.45

**ALWAYS COMPLETE ALL APPLICABLE CHECKLISTS FOR ANY SITUATION** |  | **Before initiating any 180° turn-back, consider maintaining a same direction 5NM offset. Expedite climb above or descend below the majority of NAT/HLA or other OTS traffic FL410-290 prior to crossing adjacent tracks or making a 180° turn-back.**1. Advise ATC when time permits – Turn on all exterior lights
2. Determine which way to turn (Consider OTS, Traffic, WX, Turn towards alternate airport)
3. Once established on the 5NM offset, expedite climb above or descend below NAT HLA airspace (FL285-FL420)
4. Turn Left or Right as required 180° to 225° from present course to intercept and re-establish on the offset course

***Allow 20nm for 180° course reversal*****NOTE: The FMS Offset procedure for a course reversal assumes you have inserted a contingency based turn-back flight plan in the flight plan list.*****FMS Procedure:***1. **NAV / FPL LIST (1L)** – Line select your contingency flight plan
2. Select **FPL SEL** and **ACTIVATE (6R)**
3. Confirm Replacing – Select **YES**
4. Activate appropriate leg
5. **PROG**, Page 3 / Enter Offset, L or R5 (1R) / ACTIVATE (6R)

**Use caution to select the correct offset. The new course line should be very close to your current position.**1. Verify Routing on PFD and Engage LNAV/FMS
2. Confirm appropriate speed and Check Fuel
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| **WEATHER DEVIATION** |
| **Obtain ATC Clearance via Datalink/CPDLC/Request if possible. Indicate priority using “Due to WX” checkbox. If unable, contact Radio using “PAN-PAN” x3 or “WEATHER DEVIATION REQUIRED,” as necessary, to establish priority. If ATC advises, “Unable due traffic, state your intentions,” consider declaring an emergency prior to utilizing this procedure.** |
| **If unable to obtain a clearance:** |
| 1 | If possible, deviate away from nearby routes, tracks, or traffic |
| 2 | Broadcast FL, position, and intentions to nearby traffic on 121.5/123.45 |
| 3 | Maintain extra vigilance for traffic – Monitor TCAS |
| 4 | Turn on all exterior lights |
| 5 | If deviating **LESS** than 5NM remain at current FL |
| 6 | If deviating **MORE** than 5NM use the table below. |
|  | **SAND – South Ascend – North Descend** |
| **EAST 000° - 179° Mag** | **Deviating Left Deviating Right**  | **Descend 300’ Climb 300’** |
| **WEST 180° - 359° Mag** | **Deviating Left Deviating Right**  | **Climb 300’ Descend 300’**  |
|  |
| 6 | Return to cleared FL when within 5NM of course |
| 7 | Continue broadcasting FL and position |
| 8 | Continue to attempt contact with ATC and advise them of your weather deviation. |
| ***FMS Procedure*** |
| **PROG**, Page 3 / Enter Offset, L or R XX (1R) / ACTIVATE (6R)  |

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| DEPRESSURIZATION / EMERGENCY DESCENT |
| **Manually performing the Emergency Descend Procedure once crew is on O2 may be the safest course of action in Oceanic Airspace. Monitor for nearby traffic on TCAS.**1. Crew and Passenger O2 DON/100%
2. AP Disc if EDM Annunciated / Re-engage AP and select HDG and ALT, if necessary. (EDM will re-engage if above FL400)
3. Turn Left or Right as required 30-45° from present course to quickly intercept a point midway between a pair of tracks prior to entering the OTS from above. If not above tracks, establish a 5NM offset
4. Execute **AFM 04-21-30: Automatic Emergency Descent Mode**
5. Emergency Report will automatically display if EDM is activated. Review and Press Verify/Send. If not displayed, **Select FMS/NAV/CPDLC/Emergency (1L)** **– Review/Verify/Send**
6. Advise ATC when time permits - Turn on all exterior lights
7. Maintain extra vigilance for traffic. Monitor TCAS
8. Broadcast FL & Position to nearby traffic on 121.5/123.45
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| **ONE REMAINING NAV SOURCE** |
| 1 | Assess prevailing circumstance: |
|  | 1. Performance of remaining NAV source
2. Remaining portion of flight in NAT/HLA or Oceanic Airspace
 |
| 2 | Exercise good judgment with respect to current situation |
|  | 1. Request clearance above or below NAT/HLA or OTS
2. Reverse course
3. Divert to use Special Routes (e.g., Blue Spruce)
 |
| 3 | Consult ATC as to the most suitable action |
| 4 | Obtain a clearance prior to any deviation from route |
| 5 | Ensure monitoring and crosscheck of remaining NAV source. |
| 6 | Check main and STBY compass systems against flight plan |
| 7 | Attempt visual sighting of other aircraft for position confirmation |
| 8 | Advise nearby aircraft at suitable intervals (Nose change?) on 121.5/123.45 “Navigation Failure in-progress, position, FL and Intentions” |
| 9 | Contact aircraft in vicinity to obtain useful info: Current Winds, Mag Heading, Drift, etc. |
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| **TOTAL NAV FAILURE** |
| 1 | Notify ATC |
| 2 | Make best use of procedures specified above |
| 3 | Turn on all exterior lights |
| 4 | Maintain extra vigilance for traffic |
| 5 | All data required for Dead Reckoning along route is available on Computer Flight Plan. |
| **NAV RELATED CB’s** |
| ALL NAV RECEIVERS ARE ON A SINGLE CB | NAV RCVR 1 POP F3NAV RCVR 2 CPOP F3 |

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| **COMM FAILURE** |
| 1 | Check the following: |
|  | 1. Communication Panels (ACPs)
2. Volume
3. Circuit Breakers POP/CPOP (See list below)
4. Boom/Mask/Mic – 121.5 EMER Switch
5. Replace microphone and or headset
6. Try different frequency
 |
| 2 | Attempt communications on SATCOM |
| 3 | Attempt contact via Datalink/CPDLC  |
| 4 | Squawk 7600 |
| 5 | Broadcast in the Blind on 121.5/123.45 |
|  | **Remain clear of Oceanic Airspace if able** |
| 6 | If failure occurs within the Oceanic airspace: |
| 1. **NAT/HLA** fly route you received in your clearance and maintain your last cleared/assigned flight level and Mach
2. **PACIFIC OCA** maintain the last assigned speed and level for **60 minutes** after the last **compulsory reporting** point since the failure. **THEN** adjust speed and Altitude in accordance with the **FILED Flight Plan**
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| 7 | Rejoin FILED Route after exiting Oceanic Airspace |
| 8 | Continue attempts to regain communication |
| **COMM RELATED CB’s** |
| PILOT ACP POP G-1COPILOT ACP CPOP G-1OBSERVER ACP CPOP G-2 | VHF COMM 1 POP F-4VHF COMM 2 CPOP F-4NAV/COM CPOP G-4 | HF CPLR 1 SSPC #2301 HF CPLR 2 SSPC #2302 HF RX/TX 1 SSPC #2303 HF RX/TX 2 SSPC #2304 |
| SATCOM PRI SSPC #2311 |  |  |

| **OCEANIC CONTACTS** |
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| ***Verify numbers on Jeppesen Chart*** |
| GANDER OCEANIC | SATOM 431603 Oceanic / 431602 Domestic+1-709-651-5324 |
| GANDER RADIO | SATCOM 431613+1-709-651-5328 |
| SHANWICK OCEANIC | SATCOM 423201 or 425002+353-61-368-241 |
| SHANWICK RADIO | SATCOM 425002+353-61-471-199 |
| NEW YORK OCEANIC (NAT) | SATCOM 436695+1-631-468-1495 |
| NEW YORK OCEANIC (WATRS) | SATCOM 436696+1-631-468-1495 |
| REYKJAVIK ATC | SATCOM 425103+354-568-3035 |
| ICELAND RADIO | SATCOM 425105+354-568-4600 |
| SANTA MARIA RADIO | SATCOM 426305+351-29-68-86-655 |
| OAKLAND Center | SATCOM 436697+1-510-745-3415 or 3416 |
| OAKLAND ARINC | SATCOM 436625+1-907-269-1103 |
| ANCHORAGE Center | SATCOM 436602+1-907-269-1103 |
| FUKUOKA Center | SATCOM 443101+81-78-99-36-501 |
| TOKYO Radio | +81-47-63-26-440 |
| TOKYO Radio | +81-47-63-26-440 |