|                           | NORMAL                  | ALTERNATE              | DIRECT              | BACKUP              |
|---------------------------|-------------------------|------------------------|---------------------|---------------------|
| GAINS                     | Control deflection      | Two fixed gains:       | Two fixed gains:    | Two fixed gains:    |
|                           | scheduled with          | 250 / 340              | 250 / 340           | 250 / 340           |
|                           | airspeed                | 250 - Flaps or Gear    | 250 - Flaps or Gear | 250 - Flaps or Gear |
| YAW DAMPER                | Normal                  | Simple (IRS 3)         | Simple (IRS 3)      | Limited (IRS 3)     |
| PITCH TRIM SWITCHES       | Normal (all 3)          | BACKUP PITCH trim      | BACKUP PITCH trim   | Controlled with     |
|                           |                         | Possibly required      | Possibly required   | BACKUP PITCH        |
|                           |                         |                        |                     | switch only         |
| SPEED BRAKES              | YES                     | YES                    | YES + NO AUTO       | NO + NO AUTO        |
|                           |                         |                        | RETRACT             | RETRACT             |
| GROUND SPOILERS           | YES                     | YES                    | NO                  | NO                  |
| AUTOPILOT,                | YES                     | NO                     | NO                  | NO                  |
| AOA LIMITING              |                         |                        |                     |                     |
| High Speed Protection,    | AOA LIMITING            | STICK SHAKER at 0.85   | NO – SHAKER         | NO – SHAKER         |
| Turn Coordination,        |                         |                        |                     |                     |
| Dynamic Rudder            |                         |                        |                     |                     |
| Limiting,                 |                         |                        |                     |                     |
| Manoeuvre load            |                         |                        |                     |                     |
| Alleviation.              |                         |                        |                     |                     |
| REQUIREMENTS              | At least ONE IRU, not   | IRU is invalid or      | Channels A & B of   | All FCC channels    |
|                           | conflicting with IRU or | inconsistent or        | both FCC1 & FCC2    | have failed and     |
| NB: NORMAL /              | both AHRS.              | conflicting with AHRS. | have experienced    | BFCU providing      |
| ALTERNATE / DIRECT        | AND                     | OR                     | communications /    | PFCS commands       |
| will use both actuator if | Two or more ADS         | One valid ADS or less  | monitor failure     |                     |
| available.                | (heated and consistent  | OR                     |                     |                     |
|                           | data).                  | Loss of comms from     |                     |                     |
| BACKUP only EBHA          | AND                     | FCC to HSCU            |                     |                     |
|                           | HSCU not in Back-Up     |                        |                     |                     |
| FCS RESET                 | NA                      | POSSIBLE to NORM       | NA                  | NA                  |

| SUB MODES in NORM | GND   | TAKE-OFF & LANDING | CRUISE                     | AOA LIMITING          |  |
|-------------------|---|--------------------|----------------------------|-----------------------|--|
| CAUSE             | WEIGHT ON WHEELS  | WEIGHT OFF WHEELS  | Autopilot <b>OR</b> Gear & | AOA >0.87 - 0.93      |  |
|                   |   |                    | Flaps UP                   |                       |  |
| TRIMMING          | STABALISER  | STABALISER         | ELEVATOR then STAB         | May get shaker at     |  |
|                   |   |                    | OFF-LOAD                   | 0.94. Autopilot disc' |  |
|                   |   |                    |                            | No nose up trim.      |  |
| INDICATIONS       | Pitch Trim range Green  | Pitch Trim range & | Speed pointer only         | FCC AOA Limiting      |  |
|                   | and Green Box (inc'   | Green Box removed  |                            | AOA PROT ACTICE       |  |
|                   | numbers)  | (Inc' numbers)     |                            | MAX 0.96              |  |
|                   |   |                    |                            |                       |  |
| FCS RESET         | Resets – Alternate to Normal.   |                    |                            |                       |  |
|                   | Resets – Sub Mode that has failed to transition properly<br>Resets – REU or EBHA that has been recovered after power loss |                    |                            |                       |  |
|                   |   |                    |                            |                       |  |
|                   | Resets – HSCU after power regained.   |                    |                            |                       |  |

| FCC1 – CH A – UPS   | (UPS Battery lifed for 30 mins)  |
|---------------------|----------------------------------|
| FCC1 – CH B – L.ESS | (Ship Battery lifed for 16 mins) |
| BFCU – UPS          | (UPS Battery lifed for 30 mins)  |
| FCC2 – CH A – R.ESS | (Ship Battery lifed for 16 mins) |
| FCC2 – CH B – UPS   | (UPS Battery lifed for 30 mins)  |