Avionics Questionnaire

Operator: _____Aircraft Model: _____ Airplane SN:_____

A. Please complete the following table with the information for the avionics/system components currently installed in the airplane. If other avionics components relevant to the altimetry systems are installed on the aircraft, please include their information in the blank spaces.

Component	Manufacturer Model	Part Number
#1 Air Data Computer (or Unit)		
#2 Air Data Computer (or Unit)		
#1 Configuration Module [CM1]		
#2 Configuration Module [CM2]		
#1 Altimeter [ALT1]		
#2 Altimeter [ALT2]		
#1 Mach/Airspeed Indicator		
#2 Mach/Airspeed Indicator		
LHS Pitot-Static Probe		
RHS Pitot-Static Probe		
#1 Transponder [XPDR1]		
#2 Transponder [XPDR2]		
Altitude Alerter		
Autopilot System		
Autopilot Amplifier		
Autopilot Computer		
Autopilot Panel/Controller		
#1 Air Data Control (if applicable)		
#2 Air Data Control (if applicable)		
Air Data Sensor (if applicable)		

Table 1. Avionics Component Information for RVSM Operations

Please provide the following information:

a) Operating Empty Weight (OEW): _____ **lbs.**

b) On a short flight, cruising @ FL290, what is the lowest gross weight the aircraft would be expected to operate? _____**lbs.**

c) What is the maximum Mach or airspeed at which typical operations might be conducted?

With your completed questionnaire, please attach an air data/altimetry system block diagram and a Pitot-static system schematic (normally found in the Maintenance Manual).

Avionics Questionnaire

Operator: _____Aircraft Model: _____Airplane SN:_____

B. Please answer the following questions about the airplane configuration:

1) Suppose the #1 ADC (ADC1[1]) fails during normal flight.
   a) What annunciation will be provided to the crew (i.e. how will they know)?
   b) If the autopilot is flying off the #1 system, will the autopilot disengage? **Yes__ No__**
   c) Will the altitude alerter function normally? **Yes__ No__**
      i) If not, what action needs to be taken to ensure the altitude alerter functions normally?

2) Suppose the #2 ADC (ADC2[1)] fails during normal flight.
   a) What annunciation will be provided to the crew (i.e. how will they know)?
   b) If the autopilot is flying off the #2 system, will the autopilot disengage? **Yes__ No__**
   c) Will the altitude alerter function normally? **Yes__ No__**
      i) If not, what action needs to be taken to ensure the altitude alerter functions normally?

3) Is there an "ADC Select" switch installed in the airplane? **Yes__ No__**
4) What type of Pitot static system is installed on the aircraft (Fill in the blanks)
   a) Pitot probes and flush mounted static sources_____
   b) Pitot static probes only._____ How many?_____
   c) A combination of both. Please explain.
5) Does the airplane have a static source select switch, allowing the crew to select the primary (normal) or standby (alternate) static sources? **Yes__ No__**
   a) If so, is there a single switch, or one each for the Pilot and CoPilot?
      Single Switch__ There is one for the Pilot & one for the CoPilot__
6) Is there a transponder select switch installed on the airplane, allowing the flight crew to select which transponder is reporting to ATC? **Yes__ No__**
   a) If so, is it manual or automatic? **Manual__ Automatic__**
   b) Does the transponder select switch also select the air data system (#1 or #2) from which altitude information is obtained? **Yes__ No__**
7) To which system (#1/Pilot or #2/CoPilot) is the altitude alerter connected? **#1__ #2__ Both__ Neither__**
   a) Can either system be selected to provide data to the altitude alerter? **Yes__ No__ N/A__**
   b) While cruising with the autopilot in altitude hold mode, at what height from the cruise flight level will the altitude alerter generate an aural warning (i.e. what is the altitude alert threshold of the altitude alerter in altitude deviation mode?) **_____ feet.**
8) Is the airplane equipped with a separate air data sensor, computer or other pressure-sensing unit that provides altitude and/or static pressure information to the autopilot while flying in altitude hold mode?
   Yes__ No__
   a) What happens to the autopilot if this separate computer/sensor unit should fail (i.e. autopilot dis-engages, a second system takes over automatically or manually, etc.)?
9) Have there been any Service Bulletins or other modifications implemented, on the aircraft, which affect any of the aircraft systems identified above or the performance of the aircraft at cruise? If so, please explain on a separate sheet and attach to this survey.

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[1] *ADC refers to primary air data system component installed on the aircraft (i.e. Air Data Computer, Air Data Sensor, Air Data Unit, Air Data Display Unit, etc.).*