APPENDIX 1 TO OPERATIONAL EVALUATION REPORT

BOMBARDIER DHC8-400

ACCEPTABLE OPERATOR DIFFERENCES REQUIREMENTS TABLES

DESIGN OPERATOR DIFFERENCES REQUIREMENTS TABLE

DIFFERENCE AIRCRAFT: deHavilland DASH 8 SERIES 400
BASE AIRCRAFT: deHavilland DASH 8 SERIES 200
APPROVED BY (POI) : _____

DESIGN FEATURE	REMARKS	FLT CHAR	PROC CHNG	COMPLIANCE METHOD: TRAINING LEVEL A	TRAINING LEVEL B	TRAINING LEVEL C	CHKG / CURR FLT CHECK	CHKG / CURR CURR
GENERAL:								
FUSELAGE:		Y	Y	X			A	A
LENGTH	107 ft, 9 in.							
WINGSPAN	93 ft. 3 in. .							
TAILSPAN	30 ft. 6 in.							
HEIGHT	27 ft. 4 in.							
AIRCRAFT PERF:.								
MAX.RANGE:	- 1260NM	N	N		X		C	A
MAX CRUISE SPEED:	-350 KNOTS @ ISA /20,000 ft (95%MTOW)	Y	N		X		C	A
MAX. CLIMB RATE:	- 3500FPM SL-5000 MTOW	Y	Y		X		C	A
MAX. DESC. RATE	- 2000 @ 300FPM Cabin Descent	Y	Y		X		C	A
MAXIMUM ALTITUDE	-25,000 ft (option for 27, 000 ft)	Y	Y		X		A	A
MAXIMUM T.O. WEIGHT	-63,250 LBS	Y	N		X		A	A
MAX. LANDING WEIGHT	-61,250 LBS	Y	N		X		A	A
FUEL CAPACITY	NO AUXILIARY TANKS 1, 740 GALS. (US) 11, 724 LBS	N	N		X		A	A

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APPROVED BY (POI) : _____

DESIGN FEATURE	REMARKS	FLT CHAR	PROC CHNG	COMPLIANCE METHOD: TRAINING LEVEL A	TRAINING LEVEL B	TRAINING LEVEL C	CHKG / CURR FLT CHECK	CHKG / CURR CURR
WHEEL BASE :								
	- MAIN WHEELS TRACK- 28ft., 10 in.	N	N		X		A	A
	- NOSE TO MAIN WHEELS BASE 45 ft, 3 in.	N	Y		X		A	A
	- INCREASED TURNING RADIUS	N	Y		X		C	A
POWERPLANT:								
	- PWC PW150A: 5190 S.H.P @ ISA	Y	Y	X			A	A
PROPELLER:								
	- DOWTY R408: 6 BLADES 13 ft., 6 in DIAMETER	N	N	X			A	A
	- PROPELLER SPEEDS SERIES 400 :- 850 ; 900; 1020 RPM (SERIES 200 : - 900 ; 1050; 1200 RPM)	N	Y			X	C	C

SYSTEMS OPERATOR DIFFERENCES REQUIREMENTS TABLE

DIFFERENCE AIRCRAFT: deHavilland DASH 8 SERIES 400
BASE AIRCRAFT: deHavilland DASH 8 SERIES 200
APPROVED BY (POI) : _____

SYSTEM FEATURE	REMARKS	FLT CHAR	PROC CHNG	COMPLIANCE METHOD: TRAINING LEVEL A	TRAINING LEVEL B	TRAINING LEVEL C	CHKG / CURR FLT CHECK	CHKG / CURR CURR
SYSTEMS:								
ATA 21:								
AFT SAFETY VALVE	- ADDITIONAL OUTFLOW VALVE (2)	N	N		X		A	A
AIR CYLCE MACHINE	- ONE ACM ADDED FOR GREATER CAPACITY (2)	N	N		X		A	A
ATA 22:								
AUTOPILOT	- SINGLE AUTOPILOT ONLY , DUAL Fds	N	Y			X	C	C
	- MESSAGES DISPLAYED ON PFDs	N	Y			X	C	C
ATA 23:								
INTEGRATED RADIO / AUDIO SYSTEM	- CENTRALIZED LCD RADIO TUNING	N	Y			X	C	B
	- STANDBY VHF CONTROLLER	N	Y		X		B	B
	- 8.33 KhZ CHANNEL SPACING OF VHF COMMs (OPTIONAL)	N	N	X			A	A
	- GND MTCE JACK IN AFT EQUIP. BAY	N	N	X			A	A
FLT. ATTENDANT CABIN REPEATER LAMPS	- ADDITIONAL LAMPS AT MID-CABIN AND AFT GALLEY	N	N	X			A	A
PASS / BRIEFING / ENT	- DIGITIZED ANNOUNCEMENT	N	N	X			A	A

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APPROVED BY (POI) : _____

SYSTEM FEATURE	REMARKS	FLT CHAR	PROC CHNG	COMPLIANCE METHOD: TRAINING LEVEL A	TRAINING LEVEL B	TRAINING LEVEL C	CHKG / CURR FLT CHECK	CHKG / CURR CURR
ATA 24:								
ELECTRICAL POWER								
DC	- ELECTRICS SYNOPTIC PAGE - DC GENs UPRATED TO 400 AMPS - THIRD BATTERY SYSTEM ADDED: 17 AMP/HOUR (40 A/H optional)	N	Y		X		B	B
AC:	- AC GENs UPRATED TOO 45 kVA - FIXED FREQ. AC POWER REMOVED - AUTOMATIC AC BUS SHEDDING	N	Y		X		B	B
ATA 25:								
FLIGHT ATTENDANTS	- TWO ATTENDANTS STANDARD	N	Y	X			A	A
PAX SEATING	- 70 - 78 PASSENGERS CONFIGs.	N	N	X			A	A
DITCHING DAMS	- LOCATED ON R. & L. FWD. DOORS	N	Y		X		B	B
GALLEY	- AFT GALLEY CONFIG .	N	N	X			A	A
ATA 26:								
CLASS C BAGGAGE COMPARTMENTS	- FWD. & AFT BAGG. COMPARTMENT FIRE EXTINGUSHING	N	Y			X	C	B
BLOW-OUT DISCS FOR FIRE BOTTLES	- BLOW-OUT DISCS REMOVED FROM WING-ROOT, BOTTLE LOW INDICNs ADDED TO O/H FIRE PANEL	N	Y		X		A	A
MAIN GEAR WHEEL - WELL FIRE DETECTION	- LOOP B DEICATED TO WHEELWELL FIRE DETECTION	N	Y		X		B	B

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BASE AIRCRAFT: deHavilland DASH 8 SERIES 200
APPROVED BY (POI) : _____

SYSTEM FEATURE	REMARKS	FLT CHAR	PROC CHNG	COMPLIANCE METHOD: TRAINING LEVEL A	LEVEL B	LEVEL C	CHKG / CURR: FLT CHECK	CURR
ATA 27:								
FLIGHT CONTROLS	- NEW ELECTRONIC CONTROLLER - AUTO PITCH TRIM WITH A/P - ELEVATOR ASSYMETRY DETECTION & ANNUNCIATION - AUTO PITCH TRIM WITH FLAPS - MANUAL-ELECTRIC PITCH TRIM - ELECTRONIC. PITCH FEEL CTL. - RUDDER PRESS PROPORTIONAL TO AIRSPEED - ELEV. TRIM PUSH-OFF INDICNs - NEW CAUTION LIGHTS	N	Y			X	C	C
GUST LOCK	- FOR AILERONS ONLY	N	N	X			A	A
STALL WARNING	- AOA VANES - ELECTRICAL STICK PUSHER SERVO - NO SPEED INDICATION ON EFIS - PUSHER CAUTION / ADVISORY LTS.	Y	Y			X	C	C
AILERON CENTERING MECHANISM	- RETURNS CONTROL WHEELS TO NEUTRAL	Y	N	X			A	A
FLAPS	- ELECTRICAL CTL., HYD. ACTIVATION - NEW: FLAP POWER & FLAP DRIVE CAUTION LIGHTS	Y	N			X	B	B
ROLL SPOILERS	- GROUND MODE OPERATION ON S400	Y	Y			X	C	B

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APPROVED BY (POI) : _____

SYSTEM FEATURE	REMARKS	FLT CHAR	PROC CHNG	COMPLIANCE METHOD: TRAINING LEVEL A	TRAINING LEVEL B	TRAINING LEVEL C	CHKG / CURR FLT CHECK	CHKG / CURR CURR
ATA 28:								
FUEL CTL & INDICs	- FUEL TRANSFER SWITCH LOCATION - FUEL SYNOPTIC PAGE	N	Y		X		B	B
ATA 29:								
STANDBY POWER UNIT (AC HYDRAULIC PUMP)	- SINGLE SPU INSTALLED IN LEFT NACELLE TO SUPPORT #1 SYSTEM	N	Y		X		B	B
POWER TRANSFER UNIT	- CAPABLE OF CONTINUOUS OPER'N	N	Y		X		B	B
STATUS INDICATION FOR #1 & #2 HYD. SOVs.	- OPEN / CLOSE INDICATIONS ADDED TO O/H FIRE PANEL	N	Y			X	C	B
HYD. ISOLATION VALVE	ISOLATION VALVES FOR HYDRAULIC SYSTEMS #1 AND #2.	N	Y			X	C	B
HYDRAULIC SYSTEMS	- THIRD SYSTEM INSTALLED ON S400. DC MOTOR PUMP AND LOGIC DEDICATED TO ELEVATOR CNTL.	N	Y			X	C	B
ATA 30:								
SUPPLEMENTARY ICE DETECTION	- TWO ICE DETECT PROBES ADDED PROVIDING COCKPIT ANNUN. - NEW CAUTION & ADVISORY LTS.	N	Y		X		C	B
AOA VANES	- CONTIUOUS HEAT WITH AC POWER	N	Y	X			A	A

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APPROVED BY (POI) : _____

SYSTEM FEATURE	REMARKS	FLT CHAR	PROC CHNG	COMPLIANCE METHOD: TRAINING LEVEL A	LEVEL B	LEVEL C	CHKG / CURR: FLT CHECK	CURR
ATA 31:								
COCKPIT PANELS	- LIQUID CRYSTAL DISPLAYS FOR COCKPIT INST./FLIGHT PANELS	N	Y			X	C	C
	- ELECTRONIC. SYSTEMS SYNOPTIC PAGES	N	Y			X	C	C
ATA 32:								
ALT DNLK INDICATION	- ALT. INDn. NOW UNSWITCHED	N	Y	X			A	A
LANDING GEAR	- RETRACTION TIME REDUCED FROM 8 SEC. TO 5 SEC.	Y	N	X			A	A
	- GROUND LOCKING PINS RE-LOCATED	N	N	X			A	A
	- TOUCHED RUNWAY WARNING LIGHT	N	N	X			A	A
NOSEWHEEL STEERING	- RANGE INCREASED TO 70 DEG	Y	N	X			D	A
ATA 33:								
CAUTION / WARNING PANEL	- CAUTION / WARNING PANEL COMBINED	N	Y		X		B	B
	- SOME NEW LEGENDS INSTALLED	N	N	X			A	A
EXTERNAL LIGHTS	- STROBES MOVEDTO H. STAB. & BELLY	N	N	X			A	A
EMERGENCY LIGHTS	- COCKPIT PORTABLE EMERGENCY REMOVED FROM S400 COCKPIT	N	N	X			A	A
ESCAPE PATH LIGHTING	-NON-ELECTRIC -FOURESCENT STRIP	N	N	X			A	A

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SYSTEM FEATURE	REMARKS	FLT CHAR	PROC CHNG	COMPLIANCE METHOD: TRAINING LEVEL A	TRAINING LEVEL B	TRAINING LEVEL C	CHKG / CURR FLT CHECK	CHKG / CURR CURR
ATA 34:								
GROUND PROXIMITY WARNING SYSTEM	- GPWS LANDING FLAP SELECTION STANDARD INSTALLATION ON S400	N	Y		X		B	B
	- OPTIONAL ENHANCED GPWS	N	Y			X	B	B
PITOT / STATIC PORTS	- STATIC PORTS COMBINED WITH PITOT PROBES ; THREE SEPARATE PROBES - NO ALTERNATE SELECTOR	N	Y		X		B	B
RADIO MAGNETIC INDICATORS	- NO COCKPIT RMIs	N	Y		X		B	A
TCAS DISPLAY	- NO DEDICATED TCAS INDICATORS DISPLAYED ON EHSI	N	N		X		B	A
FMS /GPS	- VNAV OPERATIONAL	N	Y			X	C	C
ATA 35:								
CREW OXYGEN	- CREW PBE STANDARD	N	Y		X		A	A
CABIN PORTABLE OXY.	- 3 CYL (11 cu.ft ea.) ABLE TO SUPPORT 3 MASKS EACH	N	N	X			A	A
ATA 49:								
APU	- MOUNTED IN TAIL CONE - UP-RATED DC GENERATOR - 400 AMP - INLET /EXHAUST LOCATIONS	N	N		X		C	A

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APPROVED BY (POI) : _____

SYSTEM FEATURE	REMARKS	FLT CHAR	PROC CHNG	COMPLIANCE METHOD: TRAINING LEVEL A	TRAINING LEVEL B	TRAINING LEVEL C	CHKG / CURR FLT CHECK	CHKG / CURR CURR
ATA 52:								
AFT SERVICE DOORS	-ADDED RH & LH AFT SERVICE DOORS	N	Y	X			A	A
BAGGAGE DOOR	-NEW FWD. BAGGAGE COMPARTMENT	N	Y	X			A	A
EMERGENCY EXITS	- # TYPE EXITS	N	N		X		B	A
DOOR INDICATIONS	- DOOR WARNING LIGHT LOGIC - DOORS SYNOPTIC PAGE	N	Y		X		B	A
ATA 53:								
FUSELAGE	- FWD. BAGGAGE COMPT ADDED	N	Y		X		B	A
ATA 61:								
DUAL ELECTRONIC PROP CTL	- PROP SPEED CONTROL IN REVERSE - ELECTRONIC LOCKOUT OF GROUND BETA - AUTOMATIC TESTING OF AUTOFEATHER - REDUCED Np LANDING - SEMI-AUTOMATIC OVERSPEED TESTING - NEW CAUTION WARNING LIGHTS	N	Y			X	C	C
GROUND BETA HORN	- GROUND BETA SELECTION WARNING HORN	N	N			X	C	B
PROP BALANCE	- OPTIONAL PROPELLOR BALANCE MONITORING SYSTEM (for Mtce only)	N	N	X			A	A

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APPROVED BY (POI) : _____

SYSTEM FEATURE	REMARKS	FLT CHAR	PROC CHNG	COMPLIANCE METHOD				
				TRAINING			CHKG / CURR	
				LEVEL A	LEVEL B	LEVEL C	FLT CHECK	CURR
ATA 73: DUAL CHANNEL. FADECs	- CLOSED LOOP ON ENGINE POWER - ENGINE RATING SELECTED VIA CLA DETENTS - ENGINE TIME LIMITED DISPATCH - NO DISPATCH MESSAGE - ENG. CONDITION PANEL REMOVED FROM S400 NACELLE	N	Y			X	D	C
ATA 74: AUTO-IGNITION	- AUTO- IGNITION FOR ENG START & FLAMEOUT VIA FADEC	N	Y			C	C	B

MANOEUVRE OPERATOR DIFFERENCES REQUIREMENTS TABLE

DIFFERENCE AIRCRAFT: deHavilland DASH 8 SERIES 400
BASE AIRCRAFT: deHavilland DASH 8 SERIES 200
APPROVED BY (POI) : _____

MANOEUVRE	REMARKS	COMPLIANCE METHOD						
		TRAINING					CHKG / CURR	
		FLT CHAR	PROC CHNG	LEVEL C	LEVEL D	LEVEL E	FLT CHECK	CURR
GROUND MANOEUVRE INCLUDING TAXI	ADDITIONAL FUSELAGE LENGTH ESPECIALLY AFT OF THE WING COCKPIT TO MAIN GEAR RELATIONSHIP	Y	N		X		D	B
NORMAL TAKEOFF	TAKEOFF ROTATION / RATED ANGLE	Y	N		X		D	D
CLIMB, CRUISE, DECENT	POWERED ELEVATOR WITH ELECTRIC PITCH TRIM	Y	Y		X		D	D
APPROACH AND LANDING	LANDING FLARE (EYE MAIN WHEEL REFERENCE)	Y	N		X		D	D
ABNORMAL AND EMERGENCY PROCEDURES	ENGINE OUT LATERAL DIRECTIONAL CONTROL	Y	N		X		D	D
	FLAPLESS LANDING	Y	Y		Y		D	D