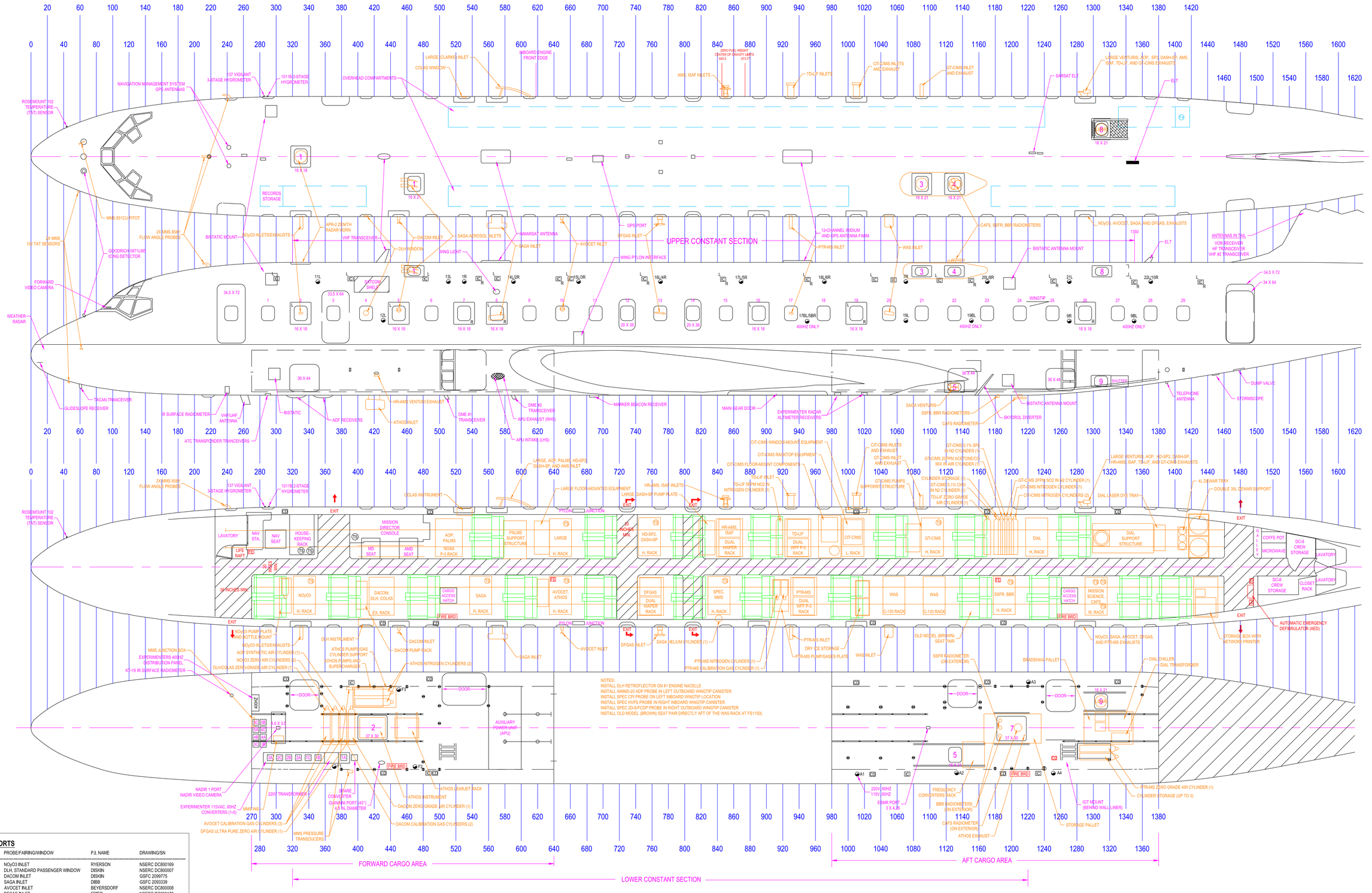
REVISION HISTORY				
REV	ZONE	DESCRIPTION	DATE	APPROVAL
A		VARIOUS CHANGES	2/16/12	A. WEBSTER



PASSENGER PORTS

PORT	PROBE/FAIRING/WINDOW	P.I. NAME	DRAWING/SN
FS330L	NOy O3 INLET	RYERSON	NSERC DC800169
FS410L	DLH, STANDARD PASSENGER WINDOW	DISKIN	NSERC DC800007
FS450L	DACOM INLET	DISKIN	GSFC 2099775
FS570L	SAGA INLET	DIBB	GSFC 2093339
FS650L	AVOCET INLET	BEYERSDORF	NSERC DC800008
FS770L	DFGAS INLET	FRIED	NSERC DC800170
FS930L	PTR-MS INLET	WISTHALER	NSERC DC800167
FS1050L	WAS INLET/EXHAUST	BLAKE	GSFC 2093338
FS1290L	COMMUNITY EXHAUST	VARIOUS	NSERC DC800028
FS245R	MMS 858Y PROBE	BUI	ARC 5238006
FS530R	COLAS, MODIFIED PASSENGER WINDOW	DISKIN	NSERC DC800024
FS570R	LARGE, AOP, PALMS, HD-SP2, AMS INLET	ANDERSON	NSERC DC800012
FS610R	LARGE, AOP, PALMS, HD-SP2, AMS INLET	ANDERSON	NSERC DC800012
FS850R	HR-AMS/ISAF INLETS	JIMENEZ/HANISCO	NSERC DC800171
FS930R	TD-LIF INLET	COHEN	NSERC DC800026
FS1010R	CIT-CIMS INLETS AND EXHAUST	WENNBERG	GSFC 2093343
FS1190R	GT-CIMS INLET AND EXHAUST	HUEY	NSERC DC800013
FS1290R	COMMUNITY EXHAUST	VARIOUS	GSFC 2093344

OTHER PORTS/PODS

PORT	PROBE/FAIRING/WINDOW	P.I. NAME	DRAWING/SN
ZENITH #1	APR-2 ZENITH RADAR HORN	TANELLI	NSERC DC800172
62° #1	SAGA AEROSOL INLETS	DIBB	ARC 5237470
62° #4	CAFS, SSFR, BBR RADIOMETERS	VARIOUS	NSERC DC800173
62° #8	DIAL WINDOW	HAIR	S/N 8705
NADIR #2	ATHOS INLET	BRUNE	NSERC DC800016
NADIR #7	CAFS, SSFR, BBR/ATHOS EXHAUST PLATE	VARIOUS	NSERC DC800017
NADIR #5	SAGA VENTURI EXHAUSTS	DIBB	ARC 5238112
NADIR #9	DIAL WINDOW	HAIR	S/N 8708
FS406	MMS 102 TAT PROBE	BUI	ARC 5238006
FS49 NADIR	MMS 102 TAT PROBE	BUI	ARC 5238006
FS64R	MMS 851CU PITOT PROBE	BUI	ARC 5238006
FS660 ZENITH	MMS GPS ANTENNA	BUI	ARC 5238006
SEXTANT	MMS 858Y PROBE	BUI	ARC 5238006
FS430L, 45°, GIANNINI	HR-AMS SMALL VENTURI	JIMENEZ	ARC 4238200
LEFT OB LOCATION	AIMMS-20 PMS CANISTER PROBE	DC-8	NSERC DC800174
LEFT IB LOCATION	SPEC CPI PROBE	LAWSON	NSERC DC800174
RIGHT IB LOCATION	SPEC HVPS PMS CANISTER PROBE	LAWSON	NSERC DC800175
RIGHT OB LOCATION	SPEC 2D-S/FCDP PMS CANISTER PROBE	LAWSON	NSERC DC800175
-	DIAL WINDOW SPARE	HAIR	S/N 9101

OTHER NON-STANDARD INSTALLATIONS

LOCATION	DESCRIPTION	P.I. NAME	DRAWING/SN
FS305L	NOy O3 PUMP PLATE/BOTTLE MOUNT	RYERSON	NSERC DC800176
FS395L	DACOM PUMP RACK	DISKIN	GSFC 2087141
FS460L	OVERHEAD DISPLAY INSTALLATION	DISKIN	NSERC DC800023
FS625L	AVOCET FLOOR-MOUNT EQUIPMENT	BEYERSDORF	GSFC 2087092
FS920L	PTR-MS PUMP/GASES PLATE	WISTHALER	NSERC DC800177
FS950L	PTR-MS DUAL WFF P-3 RACK	WISTHALER	GSFC 2129188
FS1020L	DRY ICE STORAGE	DIBB/RYERSON	GSFC 548-STR-0013
FS510R	NOAA P-3 RACK INSTALLATION	BROCK	NSERC DC800178
FS590R	PALMS SUPPORT STRUCTURE	MURPHY	GSFC 2093349
FS625R	LARGE FLOOR-MOUNT EQUIPMENT	ANDERSON	NSERC DC800027
FS830R	LARGE, DASH-SP PUMP PLATE	ANDERSON/SOROOSHIAN	NSERC DC800179
FS935R	TD-LIF DUAL WFF P-3 RACK	COHEN	GSFC 2129188
FS1010R	CIT-CIMS INSTRUMENT INSTALLATION	WENNBERG	GSFC 2093350
FS1080R	GT-CIMS PUMPS SUPPORT PLATE	HUEY	NSERC DC800020
FS1340R	DIAL SUPPORT STRUCTURE	HAIR	GSFC 2087138
FS1380R	DIAL LASER DYE SUPPORT TRAY	HAIR	GSFC 2087139
FS1410R	4L DEWAR SUPPORT	DISKIN/WENNBERG	GSFC 548-STR-0034
FS1430R	DOUBLE 35L DEWAR SUPPORT	DISKIN/WENNBERG	ARC 5237677
FS52 NOSE	MMS NOSE TRANSDUCER	BUI	DFRC 817-10340
FS270FCP	MMS JUNCTION BOX	BUI	GSFC 2093318
FS300FCP	MMS INS	BUI	DFRC 817-10324
FS380FCP	CYLINDER RACK	VARIOUS	ARC 5238304
FS390LFCP	MMS LEFT SIDE TRANSDUCER	BUI	DFRC 817-10326
FS390RFCP	MMS RIGHT SIDE TRANSDUCER	BUI	DFRC 817-10326
FS430FCP	ATHOS INSTRUMENT	BRUNE	NSERC DC800021
FS420RFCP	ATHOS PUMP/GAS CYLINDER SUPPORT	BRUNE	ARC 5238119
FS465FCP	ATHOS LEAR JET RACK INSTALLATION	BRUNE	NSERC DC800065
FS1150ACP	FREQUENCY CONVERTERS RACK	N/A	NSERC DC800121
FS1200ACP	STORAGE PALLET	N/A	DFRC 817-10032
FS1320ACP	DIAL CHILLER AND TRANSFORMER	HAIR	ARC 5237561

RACK INFORMATION

LOCATION	TYPE	EXPERIMENT	AFFILIATION	P.I. NAME
FS330L	HIGH	NOy O3	NOAA	RYERSON
FS430L	EXPERIMENTER	DACOM/DLH/COLAS	LaRC	DISKIN
FS550L	HIGH	SAGA	UNH	DIBB
FS650L	HIGH	AVOCET/ATHOS	LaRC/PSU	BEYERSDORF/BRUNE
FS760L	DUAL HIAPER	DFGAS	NCAR	FRIED
FS840L	HIGH	SPEC/MMS	SPEC/ARC	LAWSON/BUI
FS950L	DUAL WFF P-3	PTR-MS	UNIV. OF INNSBRUCK	WISTHALER
FS1055L	C-130	WAS	UC-IRVINE	BLAKE
FS1105L	C-130	WAS	UC-IRVINE	BLAKE
FS1190L	HIGH	SSFR/BBR	UC-BOULDER/NRL	SCHMIDT/BUCHOLTZ
FS1300L	MED	CAFS/MISSION SCIENCE	NCAR	HALL/SINGH/DIBB
FS510R	NOAA P-3	AOP/PALMS	NOAA/NOAA	BROCK/MURPHY
FS645R	HIGH	LARGE	LaRC	ANDERSON
FS760R	HIGH	HD-SP2/DASH-SP	NOAA/UA	GAO/SOROOSHIAN
FS850R	DUAL HIAPER	HR-AMS/ISAF	UC-BOULDER/HARVARD	JIMENEZ/HANISCO
FS935R	DUAL WFF P-3	TD-LIF	UC-BERKELY	COHEN
FS1005R	LOW	CIT-CIMS	CIT	WENNBERG
FS1100R	HIGH	GT-CIMS	GT	HUEY
FS1230R	HIGH	DIAL	LaRC	HAIR
FS460FCP	LEARJET	ATHOS	PSU	BRUNE

EXPERIMENT INFORMATION

EXPERIMENT	P.I. NAME
NOy O3	RYERSON
DACOM	DISKIN
DLH	DISKIN
COLAS	DISKIN
SAGA	DIBB
AVOCET	BEYERSDORF
ATHOS	BRUNE
DFGAS	FRIED
SPEC	LAWSON
MMS	BUI
WAS	BLAKE
PTR-MS	WISTHALER
SSFR	SCHMIDT
BBR	BUCHOLTZ
CAFS	HALL
MISSION SCIENCE	SINGH, DIBB
PALMS	MURPHY
AOP	BROCK
LARGE	ANDERSON
HD-SP2	GAO
DASH-SP	SOROOSHIAN
ISAF	HANISCO
HR-AMS	JIMENEZ
TD-LIF	COHEN
CIT-CIMS	WENNBERG
GT-CIMS	HUEY
DIAL	HAIR

RACKS

TYPE	QTY
LOW	1
MEDIUM	1
HIGH	9
C-130	2
LEARJET	1
DUAL HIAPER	2
DUAL WFF P-3	2
NOAA P-3	1
EXPERIMENTER	1
CUSTOM	1
STORAGE BOX	1
TOTAL	22

SEATS

TYPE	LEFT	RIGHT	TOTAL
STANDARD	24	14	38
MISSION DIRECTOR			2
NAVIGATOR			1
FLIGHT CREW			4
TOTAL	24	14	45

LEGEND

POWER OUTLET
INTERCOM BOX (IC)
CABLE DUCT (CD)
SMALL CABLE DUCT (SCD)
LEFT (L)
RIGHT (R)
CARGO TIEDOWN
STATIC PORT
FIRE EXTINGUISHER (FE)
OXYGEN SENSOR (O2)
UNINTERUPTIBLE POWER SUPPLY (UPS)
TOUCHSCREEN DISPLAY (TS)

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES

TOLERANCES

X.XX	X.XXX	ANGLES	FRACTIONS	125
±0.02	±0.005	±1°	±1/16	

BREAK ALL SHARP EDGES TO 0.010 RADIUS OR CHAMFER MAXIMUM

☐ FLIGHT HARDWARE/POST FAB HARDNESS TEST REQ'D
☒ HARDNESS TEST NOT REQUIRED ☐ NON-FLIGHT
☐ TEST HARDNESS PER ASTM E-18, LOCATION OPTIONAL
☐ TEST HARDNESS PER ASTM E-18, LOCATION INDICATED ON FIELD OF DRAWING WITH ⊙
☒ NO NON-DESTRUCTIVE EXAMINATION (NDE) REQ'D
☐ NDE REQUIRED PER S-313-009 CODE _____

THIS DRAWING WAS PRODUCED USING
SOFTWARE: AUTOCAD VERSION: _____
FILE NAME: _____

NEXT ASSEMBLY	USED ON

DRYDEN FLIGHT RESEARCH CENTER (DFRC)

NAME	INIT	DATE
DESIGNER A. WEBSTER	ALW	10/20/11
DRAWN A. WEBSTER	ALW	10/20/11
CHECKED R. WILCOX		
APPROVED: ENGINEER A. WEBSTER		
APPROVED: MANAGER F. CUTLER		
APPROVED: STRESS N/A	N/A	N/A
APPROVED: OPS. ENG. R. WILCOX		

NSERC
National Suborbital Education and Research Center
THE UNIVERSITY OF NORTH DAKOTA

DRAWING INTERPRETED PER GSFC-X673-64-1

TITLE
DC-3 INSTRUMENT LOADING FLOORPLAN
MAY-JUNE 2012, DC-8/N817NA

SIZE	DWG NO.	REV
E	DC800163	A
CODE	SCALE	WT	SHT 1 OF 1