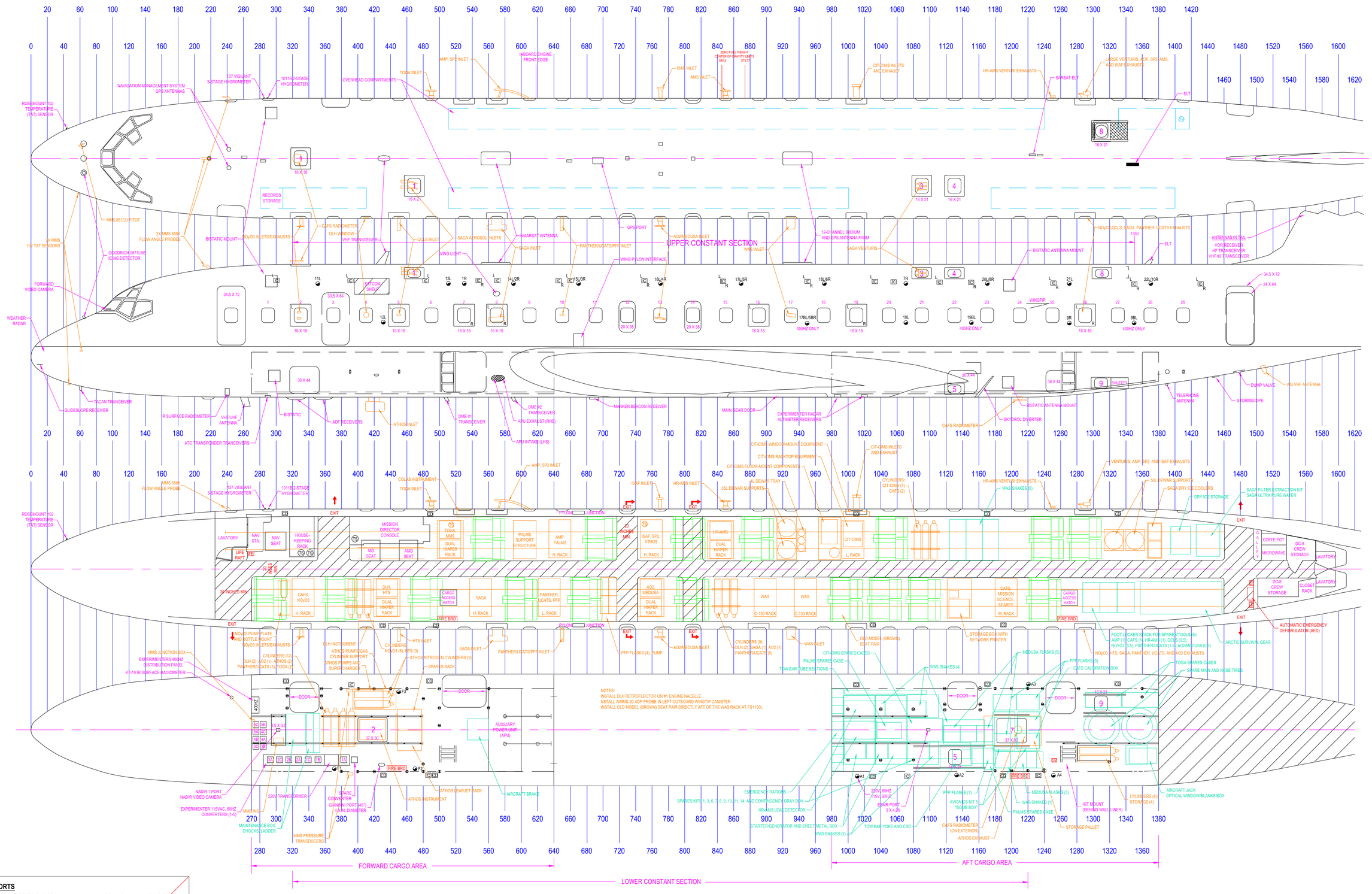
REVISION HISTORY				
REV	ZONE	DESCRIPTION	DATE	APPROVAL



PASSENGER PORTS

PORT	PROBE/FAIRING/WINDOW	P.I. NAME	DRAWING/SN
FS330L	NOyO3 INLET	RYERSON	NSERC DC800214
FS410L	DLH, STANDARD PASSENGER WINDOW	DISKIN	NSERC DC800007
FS450L	QCLS INLET	DAUBE	TBD
FS570L	SAGA INLET	DIBB	GSFC 2093339
FS650L	PANTHER/UCATS INLET	ELKINS	TBD
FS970L	WAS INLET/EXHAUST	BLAKE	GSFC 2093338
FS1090L	TOGA INLET	APEL	TBD
FS1290L	COMMUNITY EXHAUST	VARIOUS	NSERC DC800028
FS245R	MMS 858Y PROBE	BLK	ARC 5238006
FS570R	AMP INLET	BROCK	DFRC 817-10557
FS610R	AMP INLET	BROCK	DFRC 817-10557
FS770R	SP2 INLET	GAO	NSERC DC800186
FS850R	HR-AMS/ISAF INLETS	JIMENEZ/HANISCO	NSERC DC800171
FS1010R	CIT-CIMS INLETS AND EXHAUST	WENNBERG	GSFC 2093343
FS1290R	COMMUNITY EXHAUST	VARIOUS	NSERC DC800029

OTHER PORTS/PODS

PORT	PROBE/FAIRING/WINDOW	P.I. NAME	DRAWING/SN
ZENITH #1	CAFS RADIOMETER	HALL	TBD
62° #1	SAGA AEROSOL INLETS	DIBB	ARC 5237470
62° #3	SAGA VENTURI EXHAUSTS	DIBB	ARC 5238112
NADIR #2	ATHOS INLET	BRUNE	ARC 5238049, SK197
NADIR #7	CAFS RADIOMETER AND ATHOS EXHAUST PLATE	HALL/BRUNE	NSERC DC800017
FS49L	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	N/A
LEFT IB LOCATION	BALLAST	N/A	N/A
RIGHT IB LOCATION	BALLAST	N/A	N/A
RIGHT OB LOCATION	CDP PMS CANISTER PROBE	BROCK	N/A

OTHER NON-STANDARD INSTALLATIONS

LOCATION	DESCRIPTION	P.I. NAME	DRAWING/SN
FS305L	NOyO3 PUMP PLATE/BOTTLE MOUNT	RYERSON	NSERC DC800176
FS760L	DUAL HIAPER RACK INSTALLATION	DAUBE/DISKIN	NSERC DC800002
FS1100L	DUAL HIAPER RACK INSTALLATION	APEL	NSERC DC800002
FS700R	DRY ICE STORAGE	DAUBE/DIBB/RYERSON	TBD
FS840R	DUAL HIAPER RACK INSTALLATION	JIMENEZ/HANISCO	NSERC DC800002
FS920R	DUAL 35L DEWAR SUPPORT	DAUBE/WENNBERG	ARC 5237677
FS940R	4L DEWAR SUPPORT	DAUBE/WENNBERG	NSERC DC800218
FS975R	CIT-CIMS FLOOR EQUIPMENT INSTALLATION	WENNBERG	CIT D-CIM-5092
FS1010R	CIT-CIMS WINDOW PLATE INSTALLATION	WENNBERG	CIT D-CIM-5096
FS52 NOSE	MMS NOSE TRANSDUCER	BUI	DFRC 817-10340
FS270FCP	MMS JUNCTION BOX	BUI	GSFC 2093318
FS300FCP	MMS INS	BUI	DFRC 817-10324
FS380FCP	COMPRESSED GAS CYLINDER RACK	VARIOUS	ARC 5238304
FS390LFCP	MMS LEFT SIDE TRANSDUCER	BUI	DFRC 817-10326
FS390RFCP	MMS RIGHT SIDE TRANSDUCER	BUI	DFRC 817-10341
FS420RFCP	ATHOS PUMP/GAS CYLINDER SUPPORT	VARIOUS	ARC 5238119
			ARC 5238321
FS1200ACP	STORAGE PALLET	DC-8	DFRC 817-10032
FS1320ACP	BRADSHAW PALLET	DC-8	ARC 5237561

RACK INFORMATION

LOCATION	TYPE	EXPERIMENT	P.I. NAME
FS330L	HIGH	NOyO3	RYERSON
FS430L	DUAL HIAPER	HTS/DLH	DAUBE/DISKIN
FS550L	HIGH	SAGA	DIBB
FS650L	LOW	PANTHER/UCATS	ELKINS/ELKINS
FS1055L	C-130	WAS	BLAKE
FS1105L	C-130	WAS	BLAKE
FS1190L	DUAL HIAPER	TOGA/CAFS	APEL/HALL
FS530R	MEDIUM	ATHOS/CAFS	BRUNE/HALL
FS620R	HIGH	AMP/MISSION SCIENCE	BROCK/WOFSY
FS760R	HIGH	SP2/MMS	GAO/BUI
FS840R	DUAL HIAPER	HR-AMS/ISAF	JIMENEZ/HANISCO
FS1005R	LOW	CIT-CIMS	WENNBERG
FS460FCP	LEARJET	ATHOS	BRUNE

EXPERIMENT INFORMATION

EXPERIMENT	P.I. NAME	AFFILIATION
NOyO3	RYERSON	NOAA CSD
CAFS	HALL	NCAR
DLH	DISKIN	NASA LaRC
QCLS	DAUBE	HARVARD
SAGA	DIBB	UNH
PANTHER	ELKINS	NOAA GMD
UCATS	ELKINS	NOAA GMD
AO2	STEPHENS	NCAR
MEDUSA	STEPHENS/KEELING	NCAR
PFP	MONTZKA	NOAA GMD
WAS	BLAKE	UCI-IRVINE
MISSION SCIENCE	WOFSY	HARVARD
TOGA	APEL	NCAR
MMS	BUI	NASA ARC
PALMS	FRODYD	NOAA CSD
AMP	BROCK	NOAA CSD
ISAF	HANISCO	NASA GSFC
SP2	FAHEY	NOAA CSD
ATHOS	BRUNE	PSU
HR-AMS	JIMENEZ	CU-BOULDER
CIT-CIMS	WENNBERG	CIT

RACKS

TYPE	QTY
LOW	2
MEDIUM	1
HIGH	4
C-130	2
DUAL HIAPER	3
STORAGE BOX	1
TOTAL	13

SEATS

TYPE	LEFT	RIGHT	TOTAL
STANDARD	20	14	34
MISSION DIRECTOR			2
NAVIGATOR			1
FLIGHT CREW			4
TOTAL	20	14	41

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)
UNINTERRUPTIBLE POWER SUPPLY (UPS)
TOUCHSCREEN DISPLAY (TS)

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

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

NEXT ASSEMBLY	USED ON

DRYDEN FLIGHT RESEARCH CENTER (DFRC)

NAME	INIT	DATE
DESIGNER A. WEBSTER	ALW	XX/XX/13
DRAWN A. WEBSTER	ALW	XX/XX/13
CHECKED M. BERRY		
APPROVED: ENGINEER A. WEBSTER		
APPROVED: MANAGER T. MOES		
APPROVED: STRESS N/A	N/A	N/A
APPROVED: OPS, ENG. M. BERRY		

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

DRAWING INTERPRETED PER GSFC-X673-64-1

TITLE
- PRELMINARY -
ATOM INSTRUMENT FLOORPLAN
20XX, DC-8/N817NA

SIZE	DWG NO.	REV
E	DC800XXX	-
CODE	SCALE	WT	SHT 1 OF 1
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