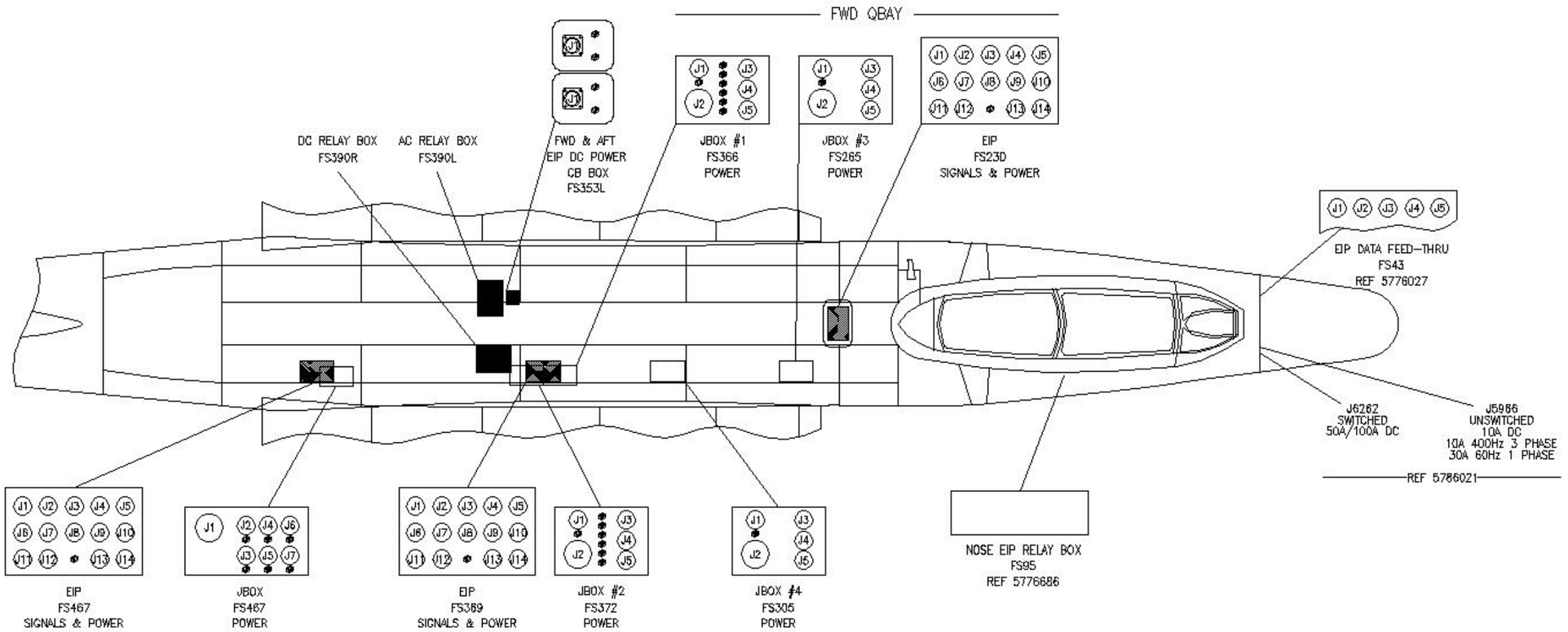


EXPERIMENT INTERFACE PANEL (EIP)

INTERNAL WIRING – EAR2110
SIGNAL & INTERLOCK – 5775082
J1 – J5
EXPERIMENT CONTROL & FAIL LAMP
429 DATA – NAV, HDG, ALT
ROLL & PITCH SYNCHRO
IRIG B, WOW SWITCH
POWER DISTRIBUTION – 5786021
J6 – J10
2 EA 115 VAC, 400 Hz, 3 PHASE @ 15A
2 EA 28 VDC @ 35A
J11 – J12
2 EA 28 VDC @ 35A
J15 – 28 VDC, 35A INPUT
J16 – 115 VAC, 400 Hz, 3 PHASE 15A INPUT
SIGNAL FEED-THRU – EAR2110 (NOT USED)
J13 – J14 SIGNAL OUTPUT
J17 SIGNAL INPUT

TAIL J BOX

INTERNAL WIRING (TAIL) – 41-98890-045
POWER DISTRIBUTION – 5786021
J1 – 28 VDC (1) @ 50A (1) @ 100A
J2 – 28 VDC @ 15A
J3 – 28 VDC @ 15A
J4 – 115 VAC, 60 Hz, 1 PHASE @ 15A
J5 – 115 VAC, 60 Hz, 1 PHASE @ 15A
J6 – 115 VAC, 400 Hz, 3 PHASE @ 15A
J7 – 115 VAC, 400 Hz, 3 PHASE @ 15A

QBAY #1 & #2 J BOX

INTERNAL WIRING – 41-98890-018
POWER DISTRIBUTION – 5786021
J1 – 115 VAC, 60 Hz, 1 PHASE @ 30A
J2 – 28 VDC (1) @ 50A (2) @ 100A
J3 – 115 VAC, 60 Hz, 1 PHASE @ 10A
J4 – 115 VAC, 400 Hz, 3 PHASE @ 35A
J5 – 115 VAC, 60 Hz, 1 PHASE @ 15A

QBAY #3 & #4 J BOX

INTERNAL WIRING – 41-98890-016
POWER DISTRIBUTION – 5786021
J1 – 115 VAC, 60 Hz, 1 PHASE @ 30A
J2 – 28 VDC (1) @ 50A (1) @ 100A
J3 – 115 VAC, 60 Hz, 1 PHASE @ 10A
J4 – (2) 115 VAC, 400 Hz, 3 PHASE @ 15A
J5 – 115 VAC, 60 Hz, 1 PHASE @ 15A

RIGHT & LEFT WING DSM/PMS I/O BOX

INTERNAL WIRING – 41-98890-024
J1 – DIGITAL/PMS I/O PORT #1
J2 – ANALOG INPUTS 0–7
J3 – ANALOG INPUTS 8–15
J4 – DIGITAL/PMS I/O PORT #2
J5 – DIGITAL/PMS I/O PORT #3
J6 – DIGITAL/PMS I/O PORT #4
J7 – SERIAL PORT #1
J8 – SERIAL PORT #2

RIGHT & LEFT WING J BOX

INTERNAL WIRING – 41-98890-021
POWER DISTRIBUTION – 5786021
J1 – 28 VDC (1) @ 50A (1) @ 100A
J2 – 28 VDC @ 15A
J3 – 28 VDC @ 15A
J4 – 115 VAC, 60 Hz, 1 PHASE @ 15A
J5 – 115 VAC, 60 Hz, 1 PHASE @ 15A
J6 – 115 VAC, 400 Hz, 3 PHASE @ 15A
J7 – 115 VAC, 400 Hz, 3 PHASE @ 15A
J8 – 28 VDC @ 15A
J9 – 28 VDC @ 15A
J10 – 28 VDC @ 15A
J11 – 115 VAC, 60 Hz, 1 PHASE @ 10A

EIP DC POWER CB BOX

INTERNAL WIRING – 5776208
POWER DISTRIBUTION – 5786021
J1 – 2 EA 28 VDC @ 35A

AC POWER RELAY BOX

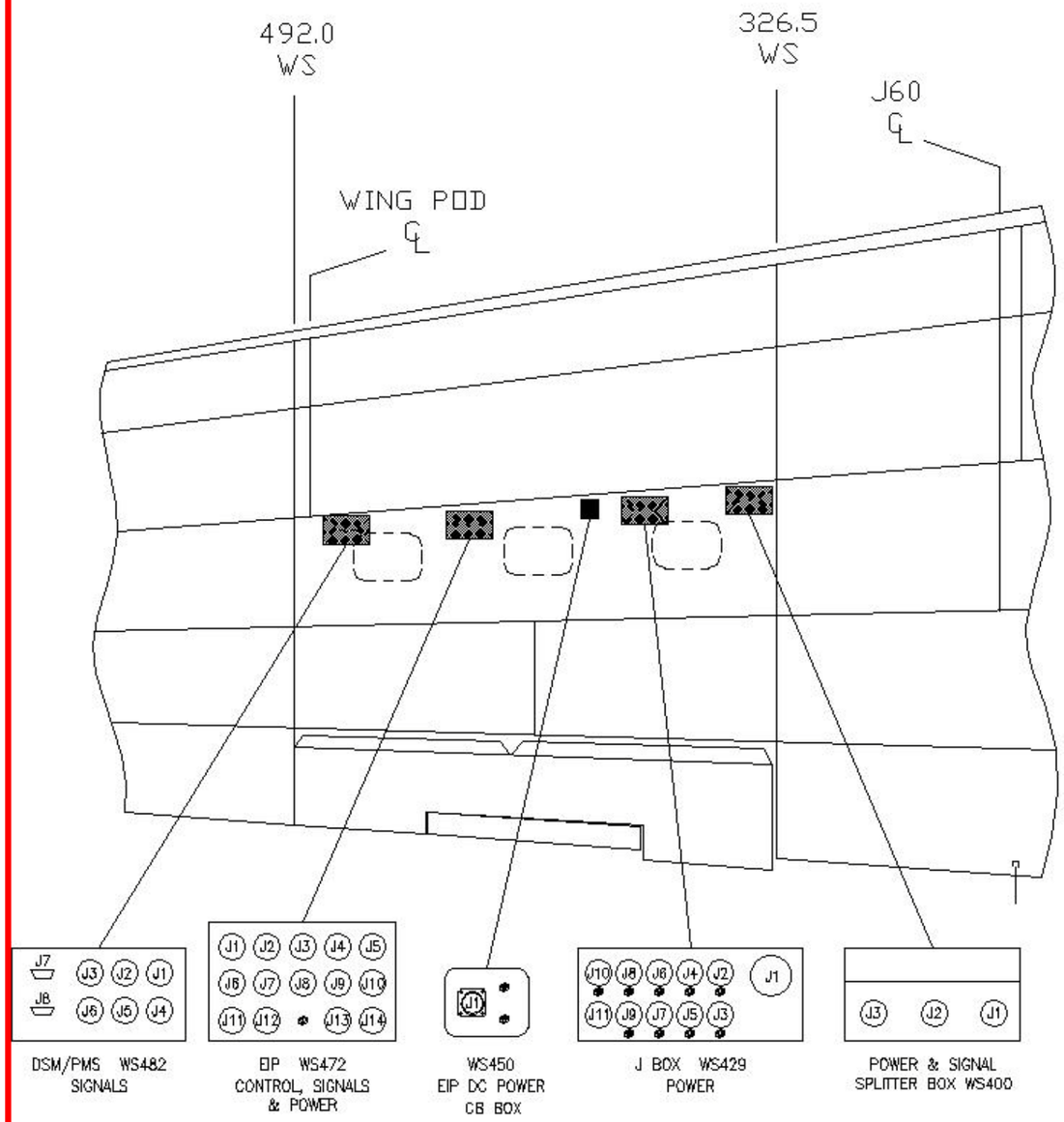
INTERNAL WIRING – 5786022
POWER DISTRIBUTION – 5786021
J1 – 115 VAC, 400 Hz, 3 PHASE INPUT
J2 – CONTROL INPUT
J3–J9 – AC OUTPUT TO J BOXES

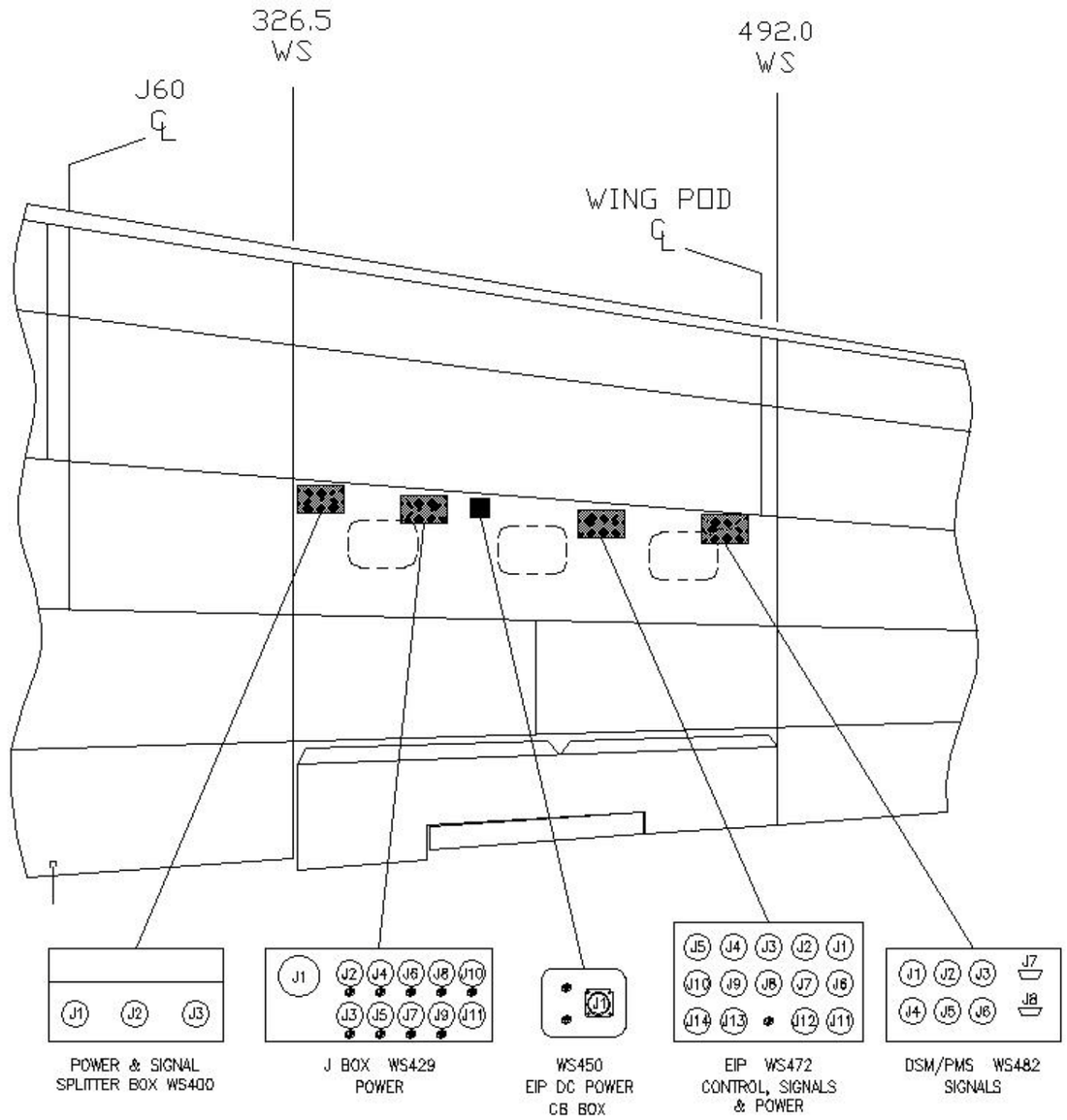
DC POWER RELAY BOX

INTERNAL WIRING – 5786023
POWER DISTRIBUTION – 5786021
J1 – 28 VDC INPUT @ 50A
J2 – 28 VDC INPUT @ 100A
J3 – CONTROL INPUT
J4–J10 – DC OUTPUT TO J BOXES

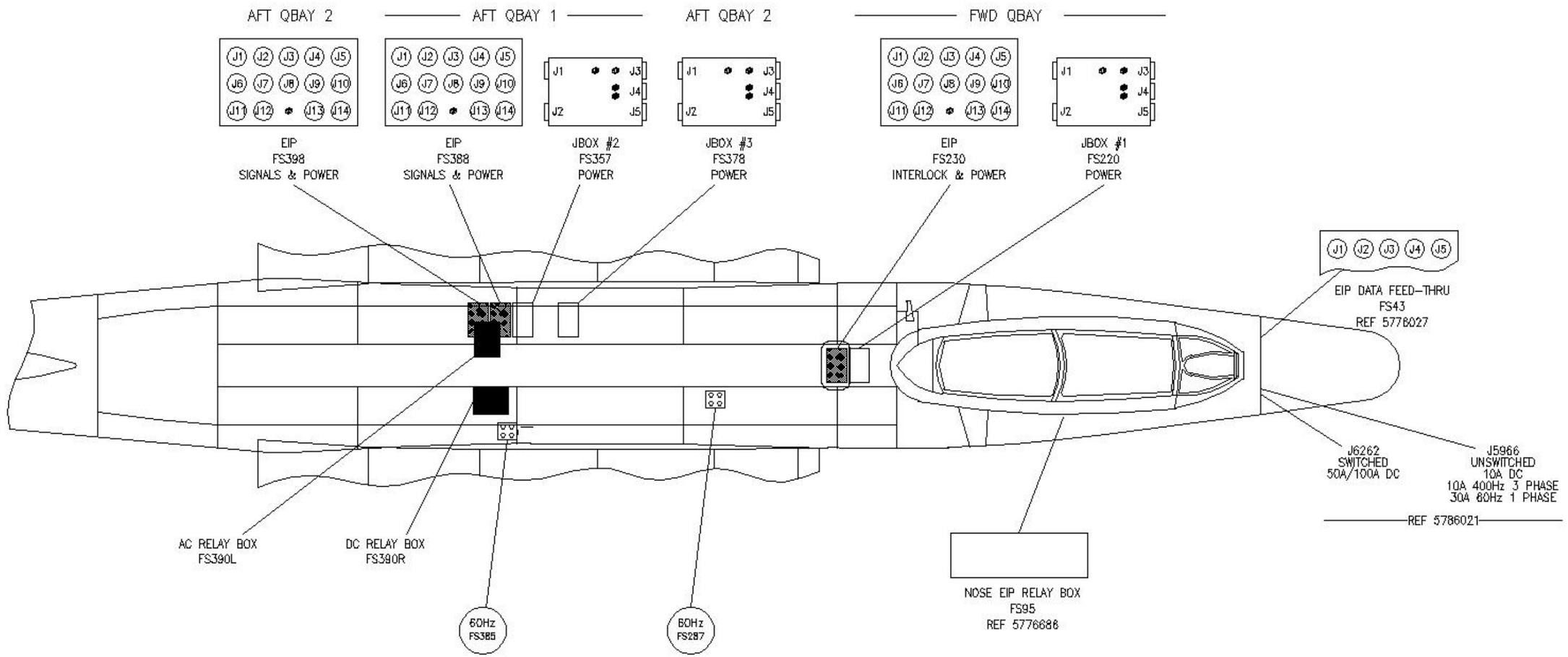
NASA 926 ONLY

LAYOUT SCHEMATIC,
AIRCRAFT PAYLOAD INTERFACE





NASA 926 ONLY



EXPERIMENT INTERFACE PANEL (EIP)

INTERNAL WIRING – EAR2110

SIGNAL & INTERLOCK – 5775082
- J1 – J5
  - EXPERIMENT CONTROL & FAIL LAMP
  - 429 DATA – NAV, HDG, ALT
  - ROLL & PITCH SYNCHRO
  - IRIG B, WOW SWITCH

POWER DISTRIBUTION – 5786021
- J6 – J10
  - 2 EA 115 VAC, 400 Hz, 3 PHASE @ 15A
  - 2 EA 28 VDC @ 35A
- J11 – J12
  - 2 EA 28 VDC @ 35A
- J15 – 28 VDC, 35A INPUT
- J16 – 115 VAC, 400 Hz, 3 PHASE 15A INPUT

SIGNAL FEED-THRU – EAR2110 (NOT USED)
- J13 – J14 SIGNAL OUTPUT
- J17 SIGNAL INPUT

EXPERIMENT POWER JBOX

INTERNAL WIRING & MECHANICAL – 5786025

POWER DISTRIBUTION – 5786021
- J1 – 115 VAC, 400 Hz, 3 PHASE INPUT
- J2 – 28 VDC (1) @ 50A (1) @ 100A INPUT
- J3 – (2) 115 VAC, 400 Hz, 3 PHASE @ 15A TO EIP
- J4 – 28 VDC (1) @ 50A (1) @ 100A
- J5 – (2) 28 VDC @ 35A TO EIP

60 Hz POWER

INTERNAL WIRING – 5776342
MECHANICAL – 5776341

POWER DISTRIBUTION – 5786021
- J1 – 115 VAC, 60 Hz, 1 PHASE @ 5A
- J2 – 115 VAC, 60 Hz, 1 PHASE @ 5A
- J3 – 115 VAC, 60 Hz, 1 PHASE @ 10A
- J4 – 115 VAC, 60 Hz, 1 PHASE @ 15A

RIGHT WING

INTERNAL WIRING – 41-98890-021

POWER DISTRIBUTION – 5776087
- J1 – 28 VDC @ 40A
- J2 – 28 VDC @ 15A
- J3 – 28 VDC @ 15A
- J4 – J11 NC

AC POWER RELAY BOX

INTERNAL WIRING & MECHANICAL – 5786022

POWER DISTRIBUTION – 5786021
- J1 – 115 VAC, 400 Hz, 3 PHASE INPUT
- J2 – CONTROL INPUT
- J3–J9 – AC OUTPUT TO J BOXES

DC POWER RELAY BOX

INTERNAL WIRING & MECHANICAL – 5786023

POWER DISTRIBUTION – 5786021
- J1 – 28 VDC INPUT @ 50A
- J2 – 28 VDC INPUT @ 100A
- J3 – CONTROL INPUT
- J4–J10 – DC OUTPUT TO J BOXES

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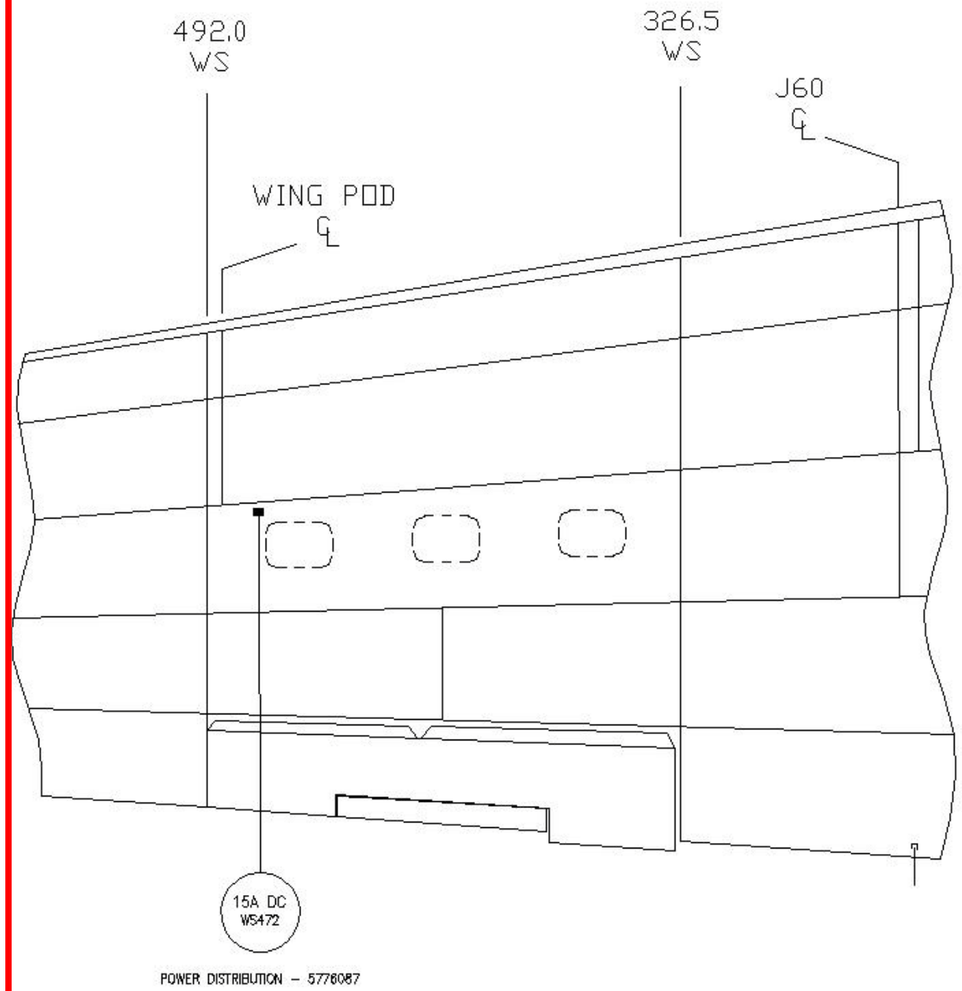
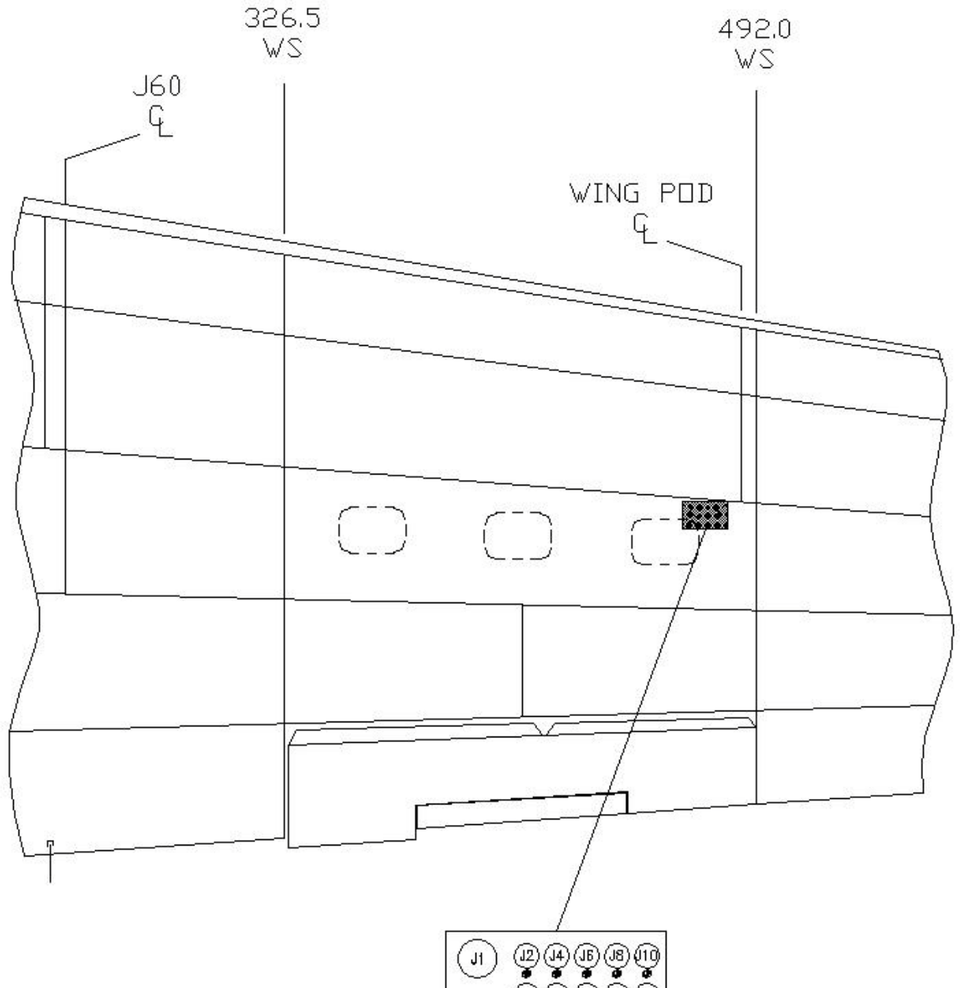
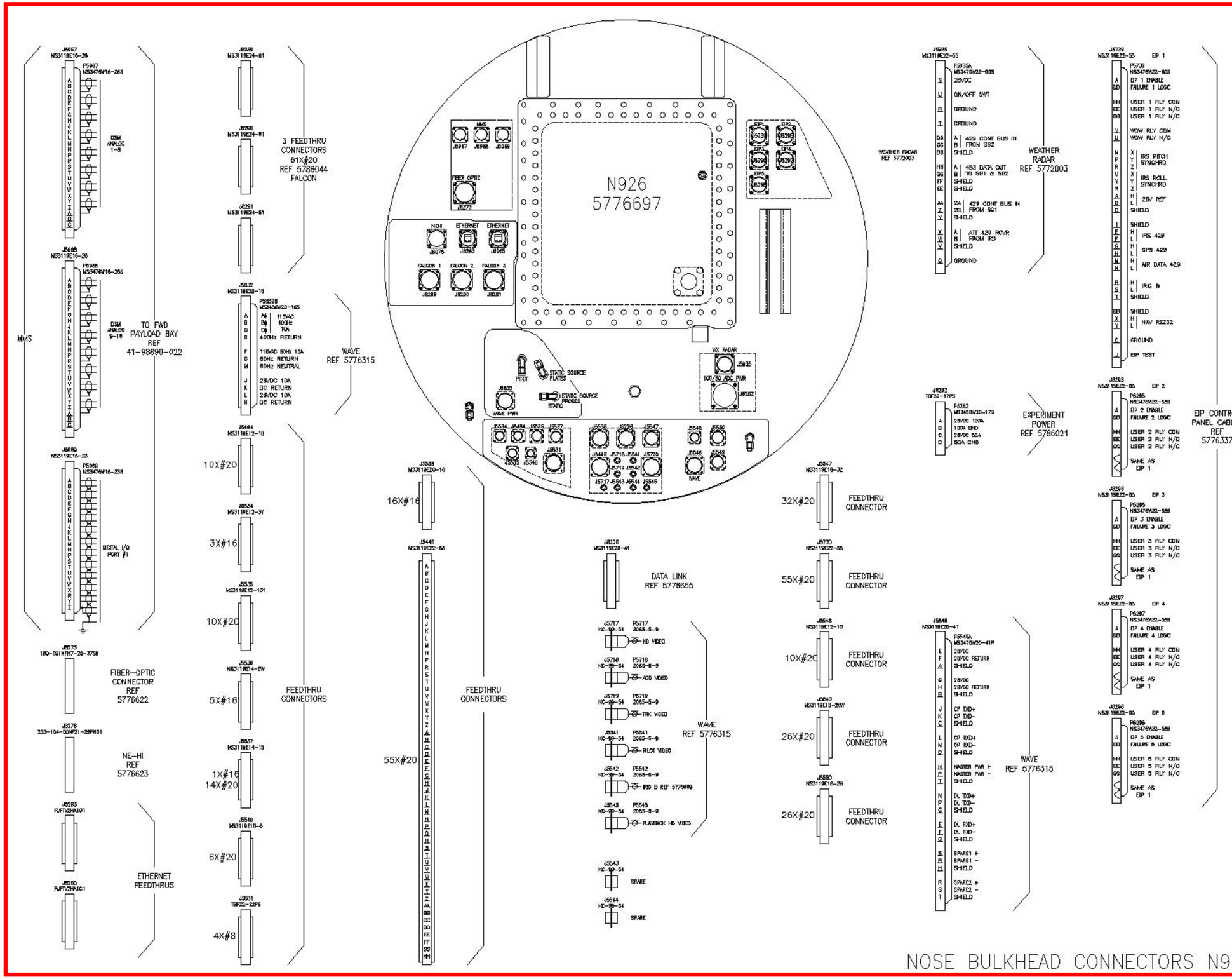
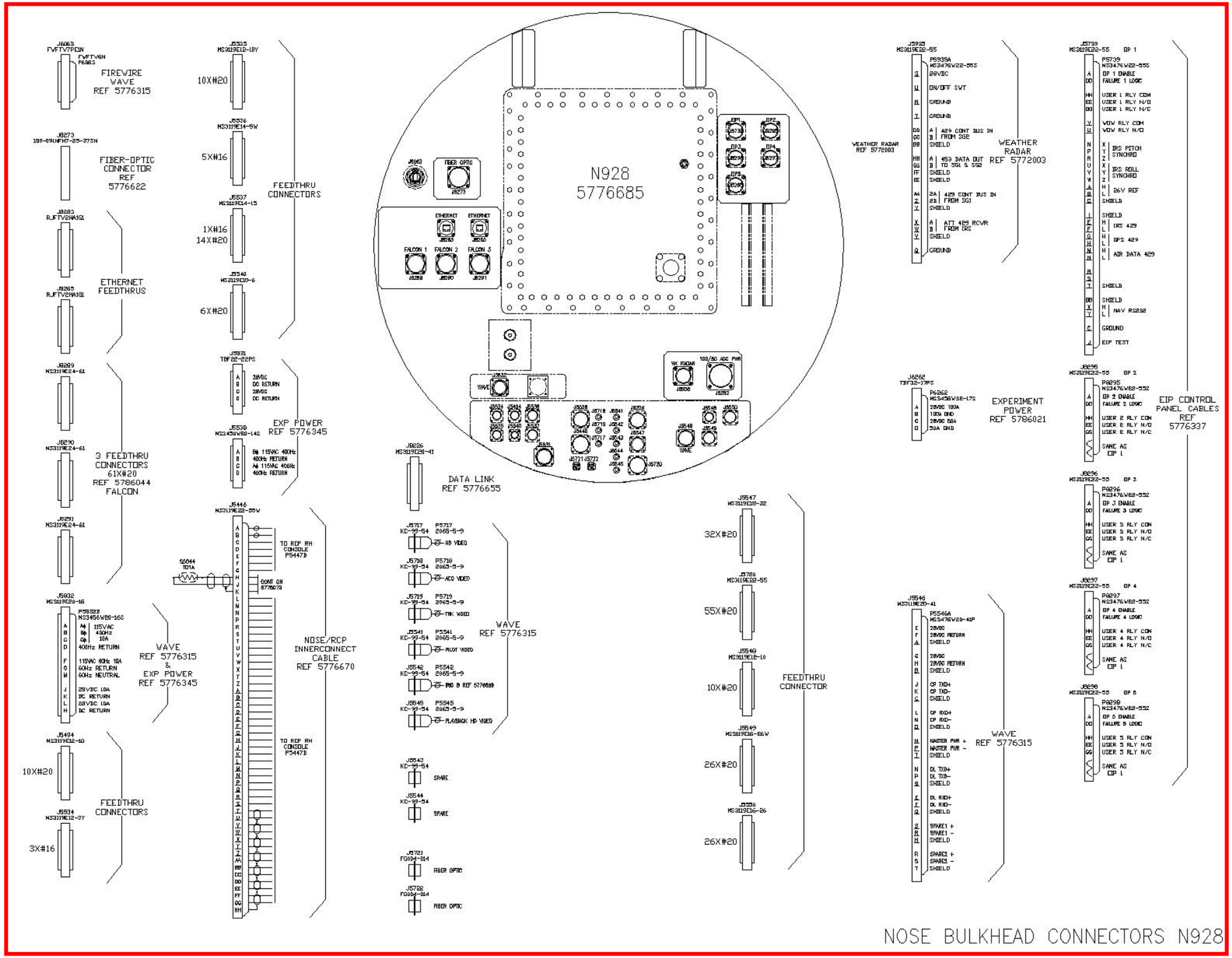




NASA 928 ONLY


N926
5776697
MMS
TO FWD PAYLOAD BAY REF 41-98890-022
DSM ANALOG 1-8
DSM ANALOG 9-16
DIGITAL I/O PORT #1
FIBER-OPTIC CONNECTOR REF 5776622
NE-HI REF 5776623
ETHERNET FEEDTHRUS
3 FEEDTHRU CONNECTORS 61X#20 REF 5786044 FALCON
10X#20
3X#16
10X#20
5X#16
1X#16 14X#20
6X#8
FEEDTHRU CONNECTORS
WAVE REF 5776315
16X#16
55X#20
FEEDTHRU CONNECTORS
DATA LINK REF 5776855
WAVE REF 5776315
32X#20
FEEDTHRU CONNECTOR
55X#20
FEEDTHRU CONNECTOR
10X#20
FEEDTHRU CONNECTOR
26X#20
FEEDTHRU CONNECTOR
26X#20
FEEDTHRU CONNECTOR
WEATHER RADAR REF 5772003
WEATHER RADAR REF 5772003
EXPERIMENT POWER REF 5786021
WAVE REF 5776315
EIP CONTROL PANEL CABLES REF 5776337
NOSE BULKHEAD CONNECTORS N926


FIREWIRE WAVE REF 5776315
FIBER-OPTIC CONNECTOR REF 5776622
ETHERNET FEEDTHRUS
3 FEEDTHRU CONNECTORS 61X#20 REF 5786044 FALCON
FEEDTHRU CONNECTORS
10X#20
5X#16
1X#16 14X#20
6X#20
EXP POWER REF 5776345
TO RCP RH CONSOLE P5447B
CONT ON 5776679
WAVE REF 5776315 & EXP POWER REF 5776345
NOSE/RCP INNERCONNECT CABLE REF 5776670
3X#16
N928 5776685
DATA LINK REF 5776655
WAVE REF 5776315
SPARE
SPARE
FIBER OPTIC
FIBER OPTIC
WEATHER RADAR REF 5772003
WEATHER RADAR REF 5772003
EXPERIMENT POWER REF 5786021
32X#20
55X#20
10X#20
26X#20
26X#20
FEEDTHRU CONNECTOR
WAVE REF 5776315
EIP CONTROL PANEL CABLES REF 5776337
SAME AS EIP 1
SAME AS EIP 1
SAME AS EIP 1
NOSE BULKHEAD CONNECTORS N928