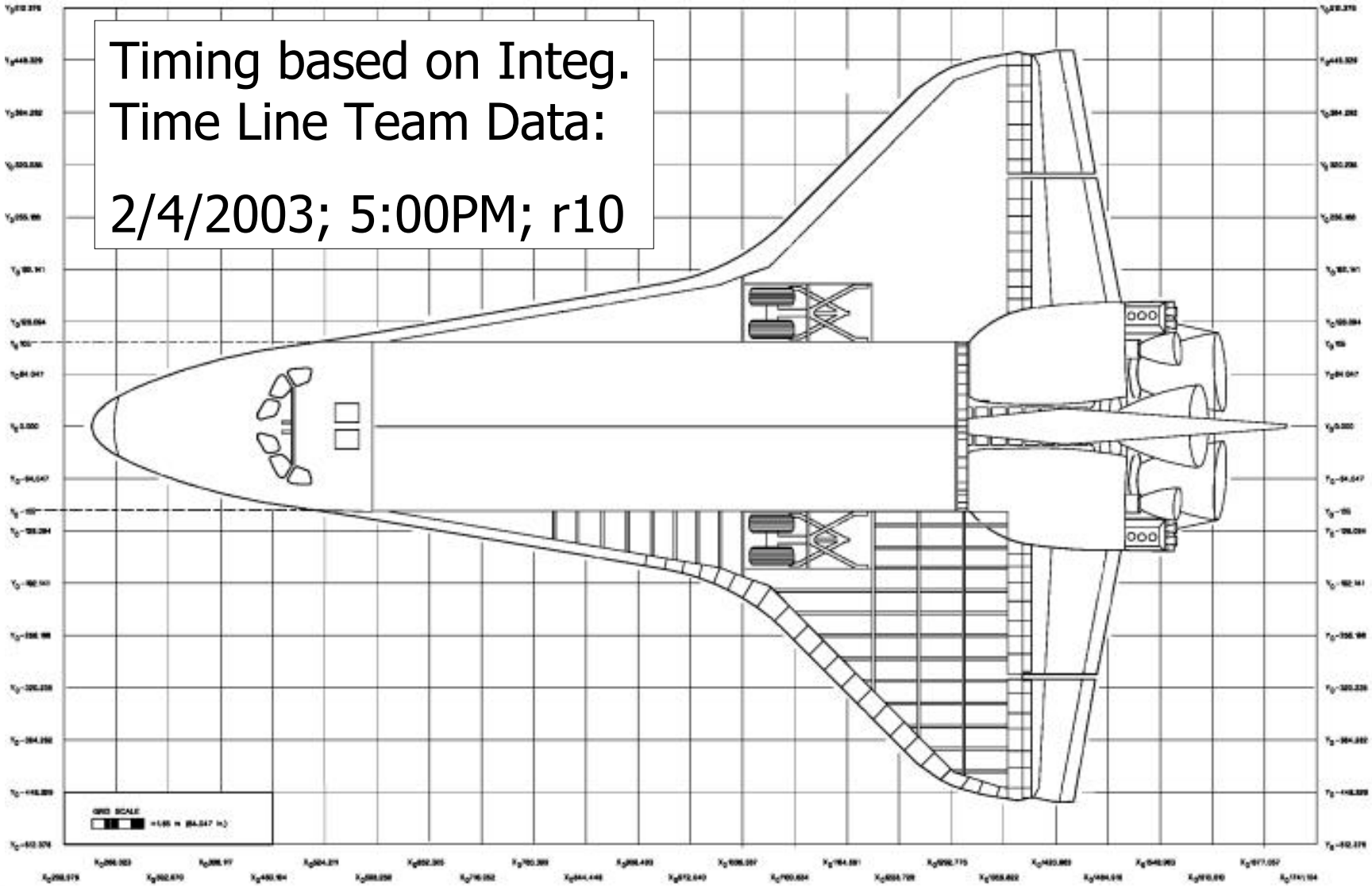
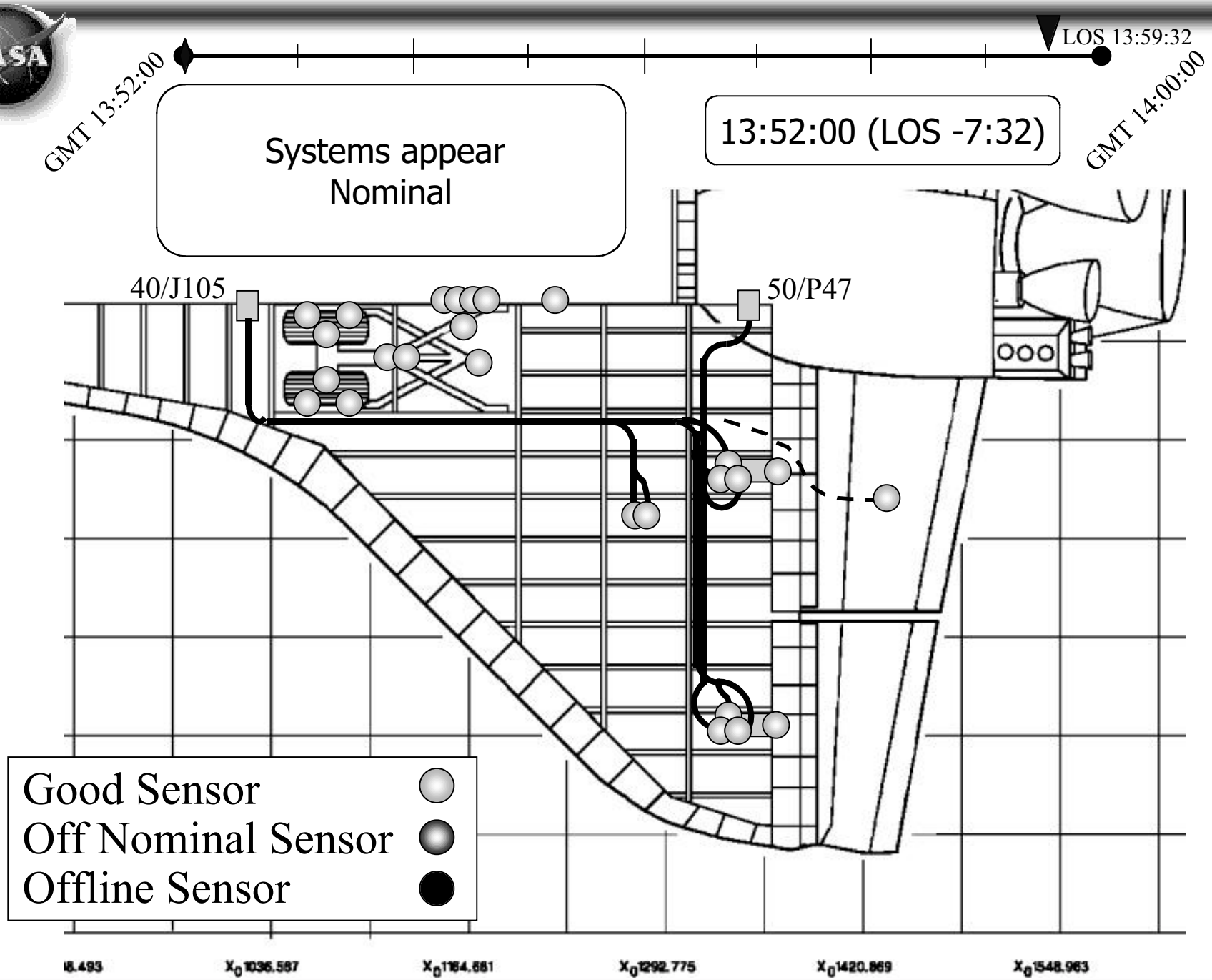
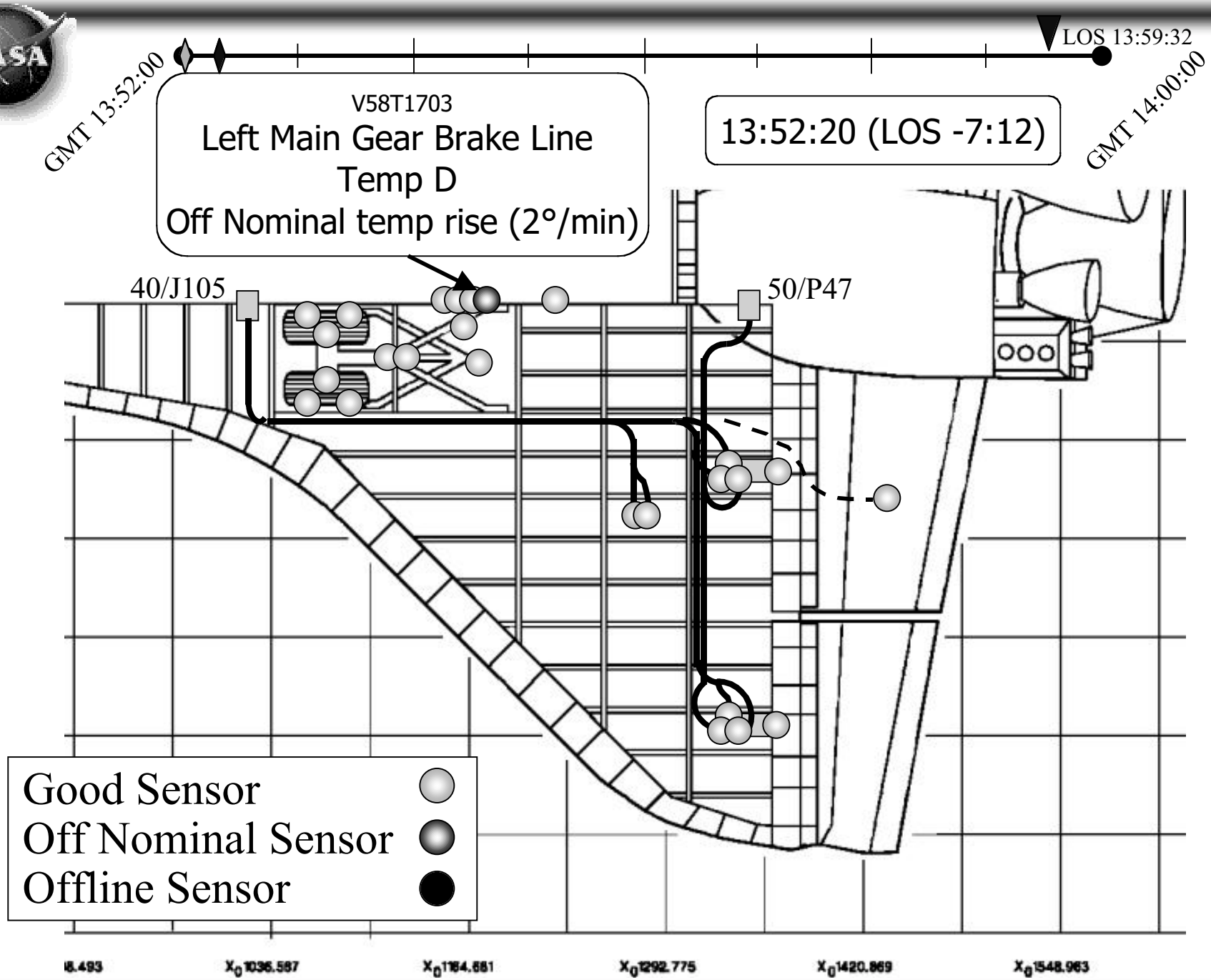
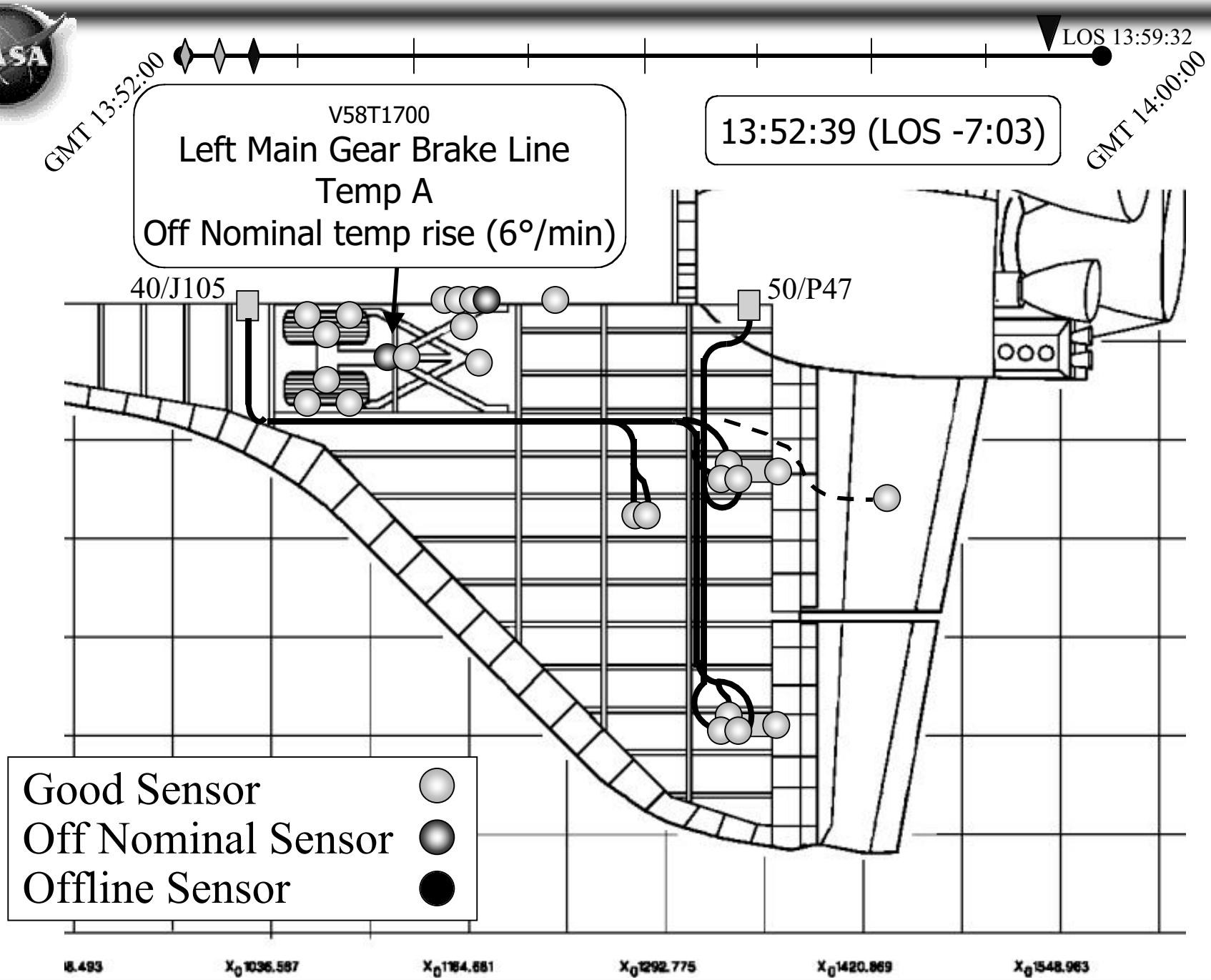
GMT 13:52:00 — LOS 13:59:32 — GMT 14:00:00

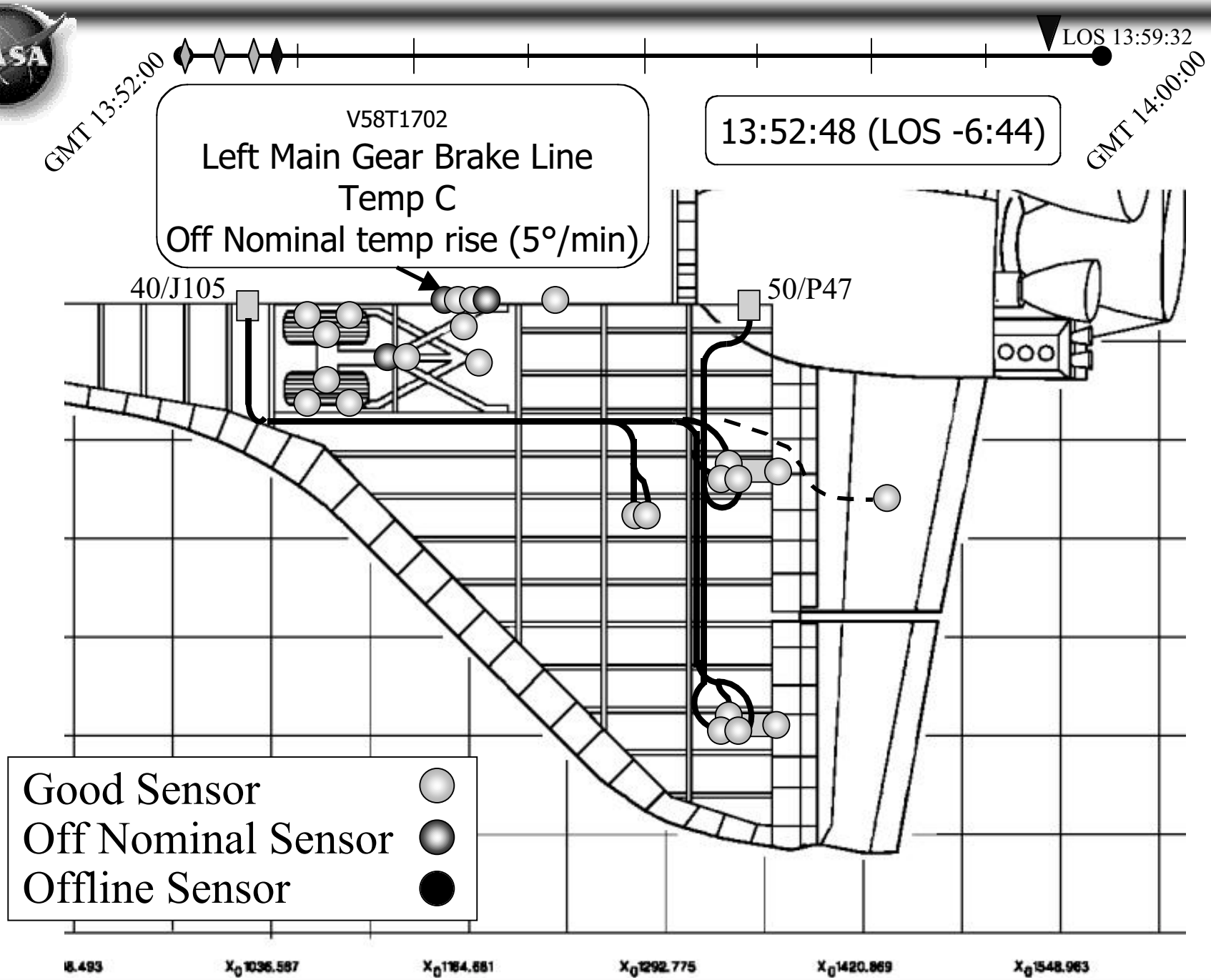
# Shuttle X-Y Axis Plane

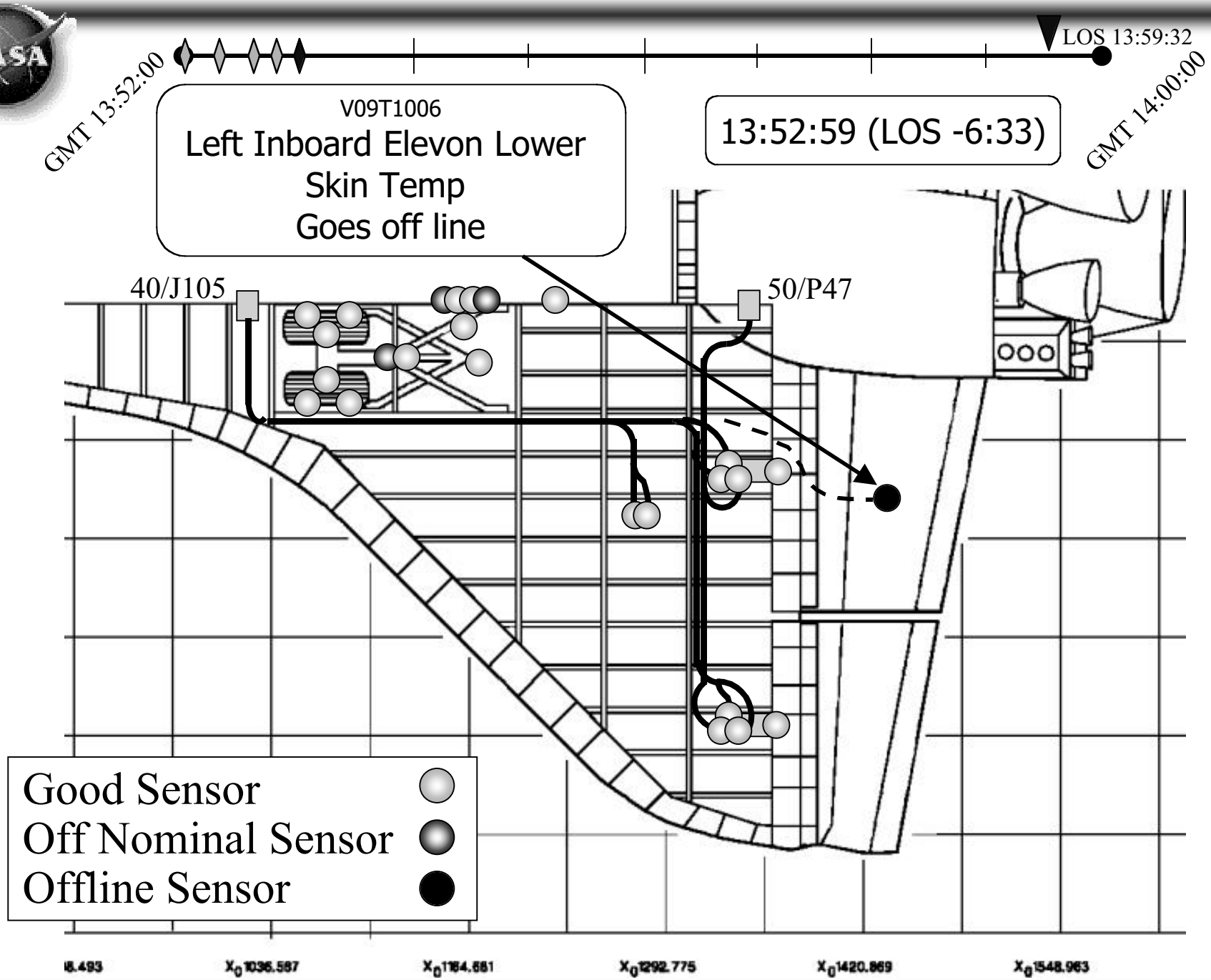


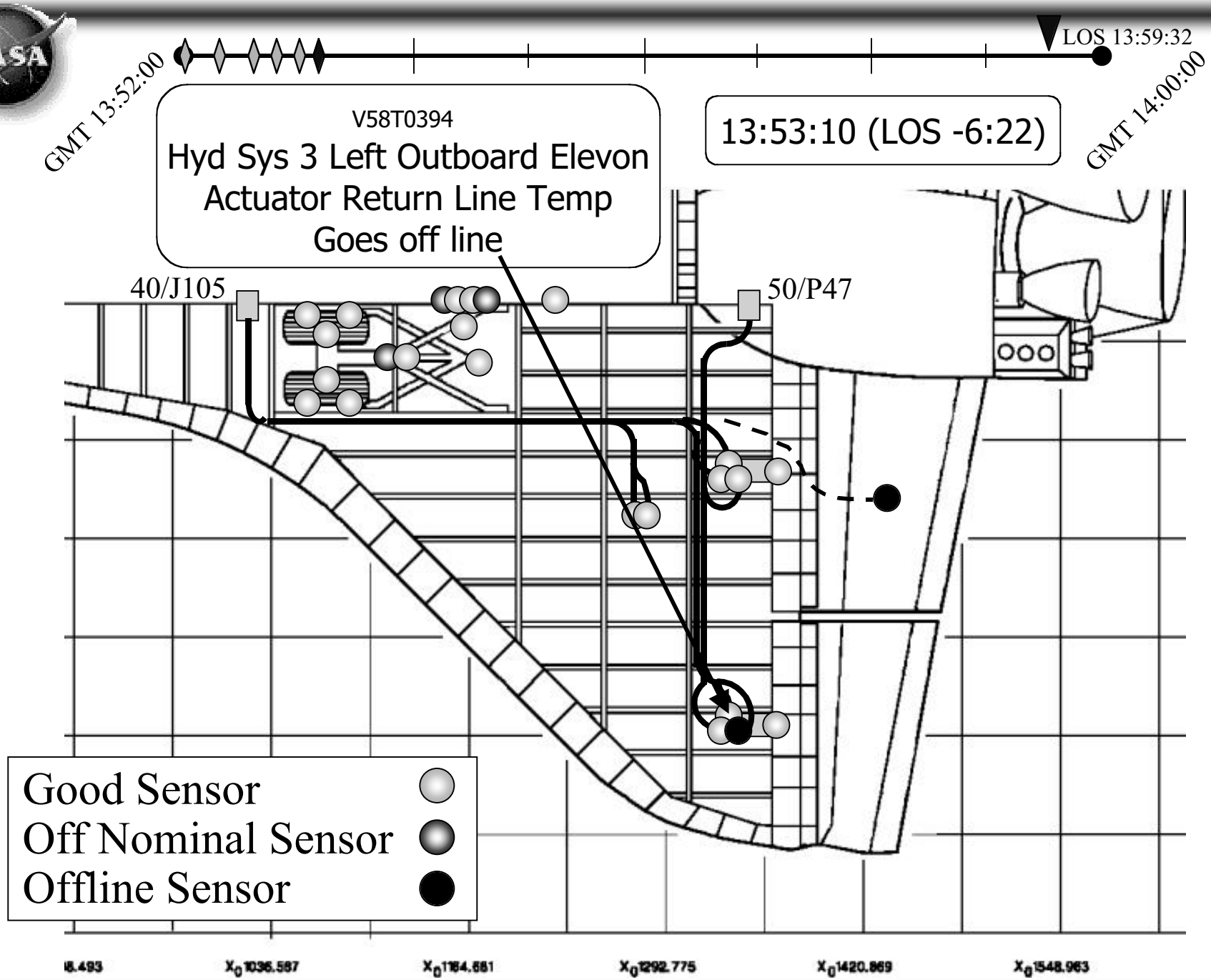

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
Systems appear Nominal
13:52:00 (LOS -7:32)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963

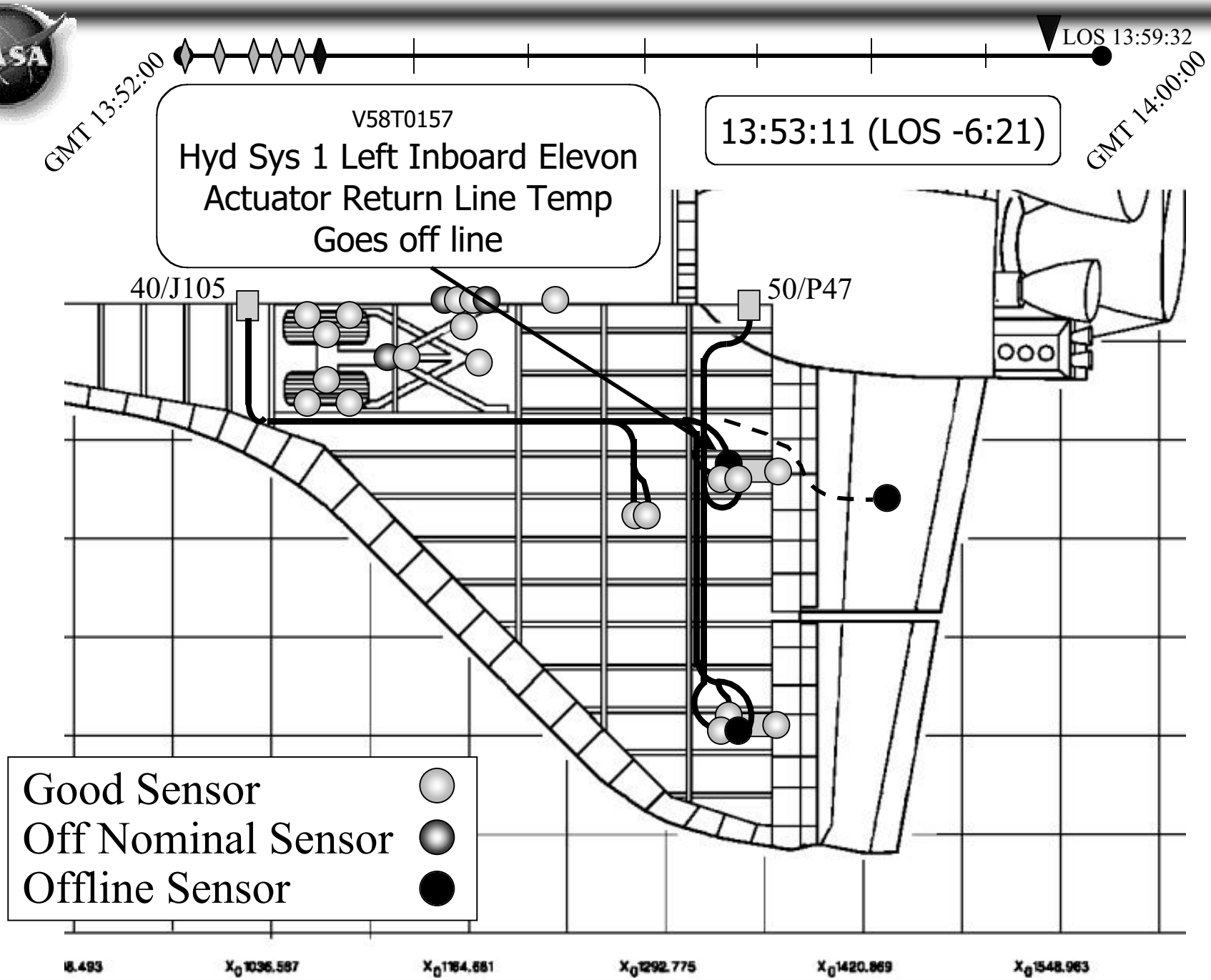

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T1703
Left Main Gear Brake Line
Temp D
Off Nominal temp rise (2°/min)
13:52:20 (LOS -7:12)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor

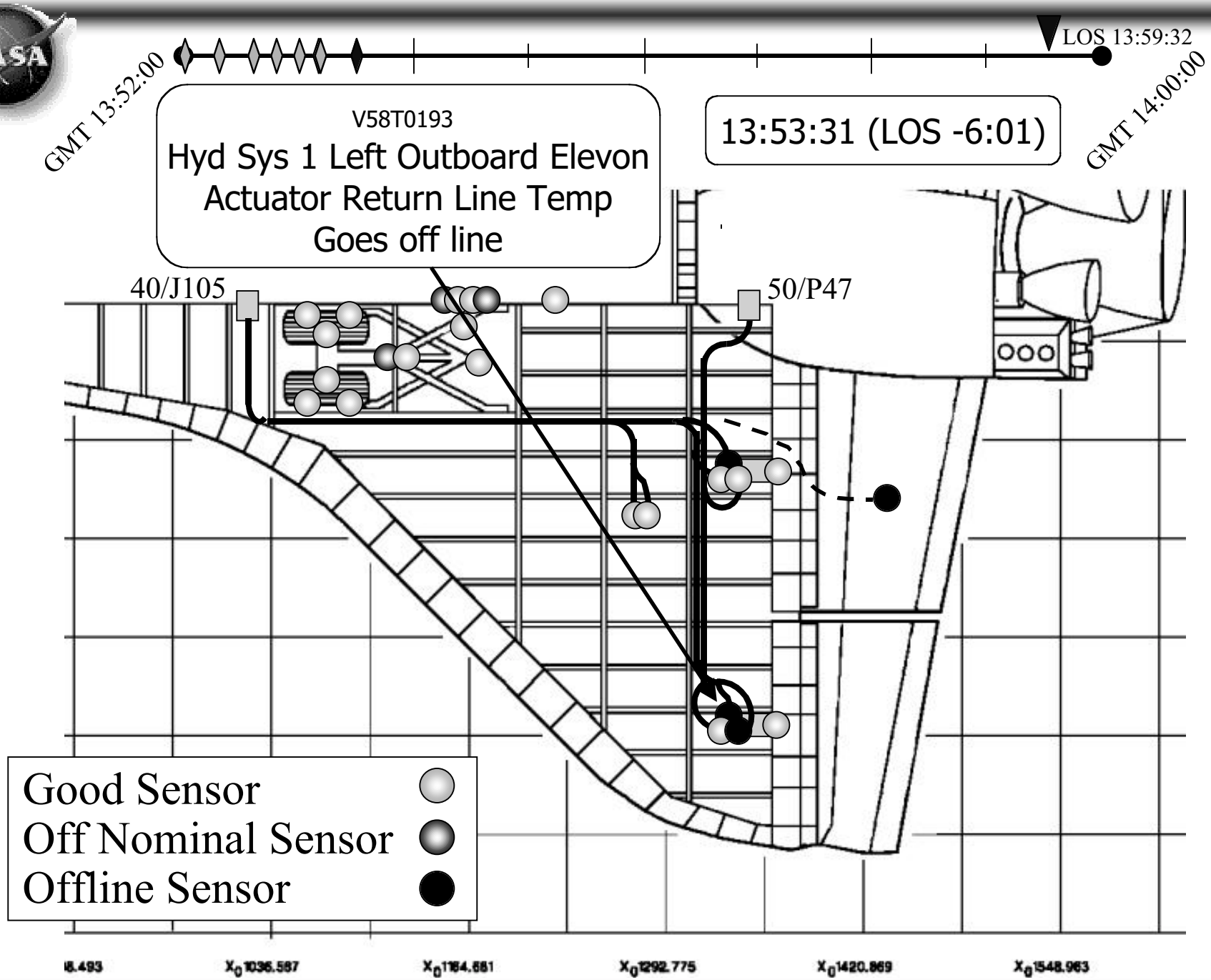

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T1700
Left Main Gear Brake Line
Temp A
Off Nominal temp rise (6°/min)
13:52:39 (LOS -7:03)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor

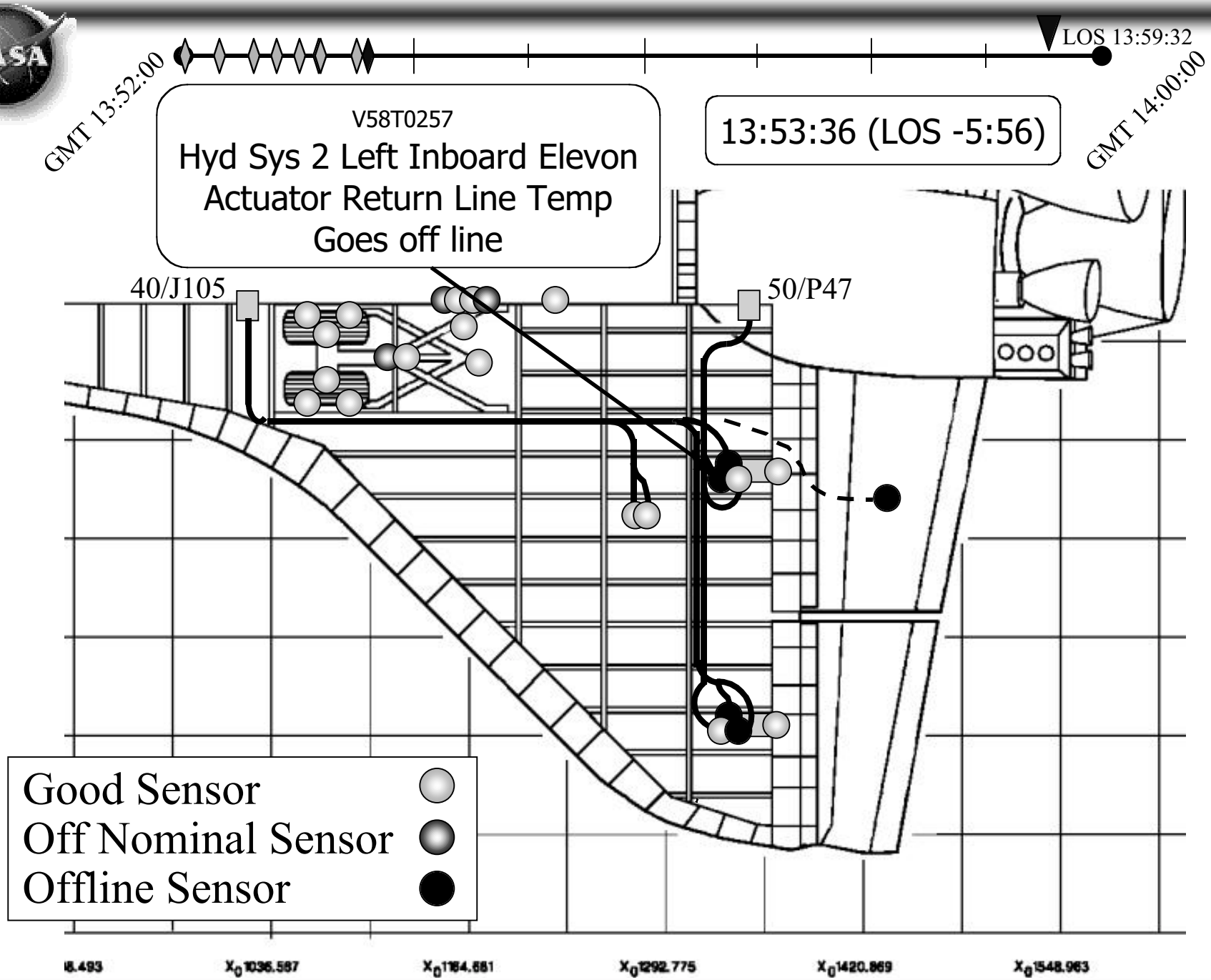

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T1702
Left Main Gear Brake Line
Temp C
Off Nominal temp rise (5°/min)
13:52:48 (LOS -6:44)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor

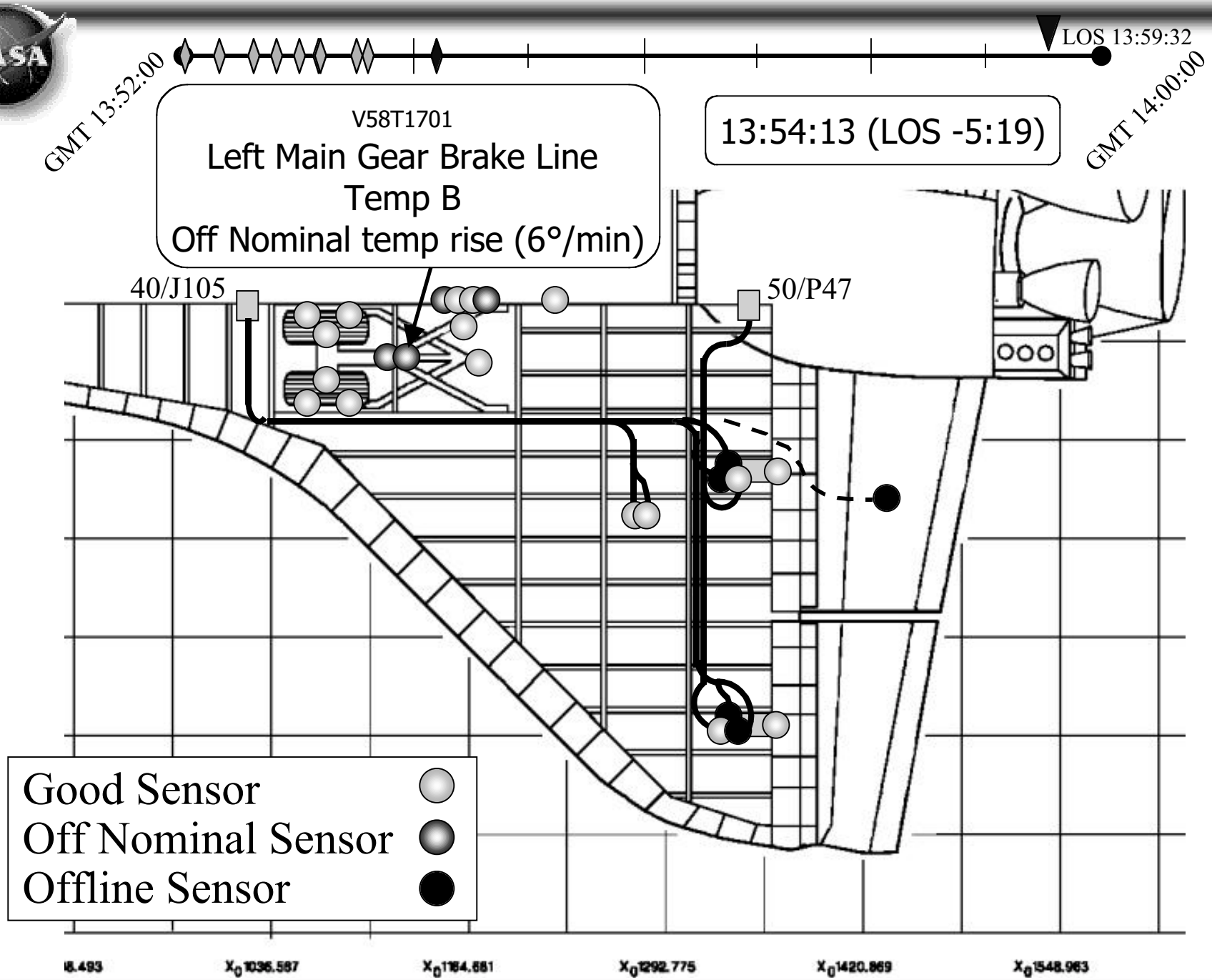

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V09T1006
Left Inboard Elevon Lower
Skin Temp
Goes off line
13:52:59 (LOS -6:33)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963

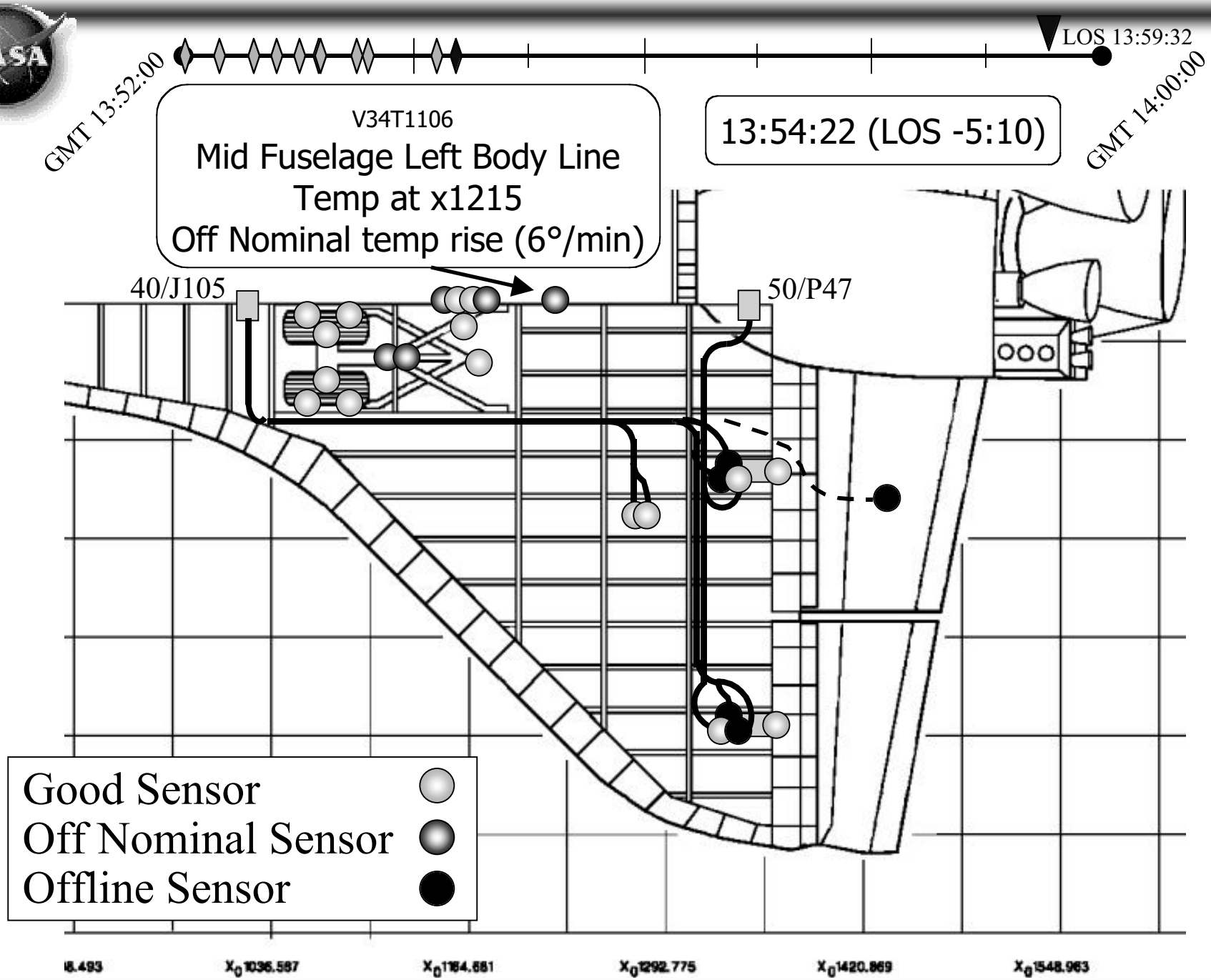

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T0394
Hyd Sys 3 Left Outboard Elevon
Actuator Return Line Temp
Goes off line
13:53:10 (LOS -6:22)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor

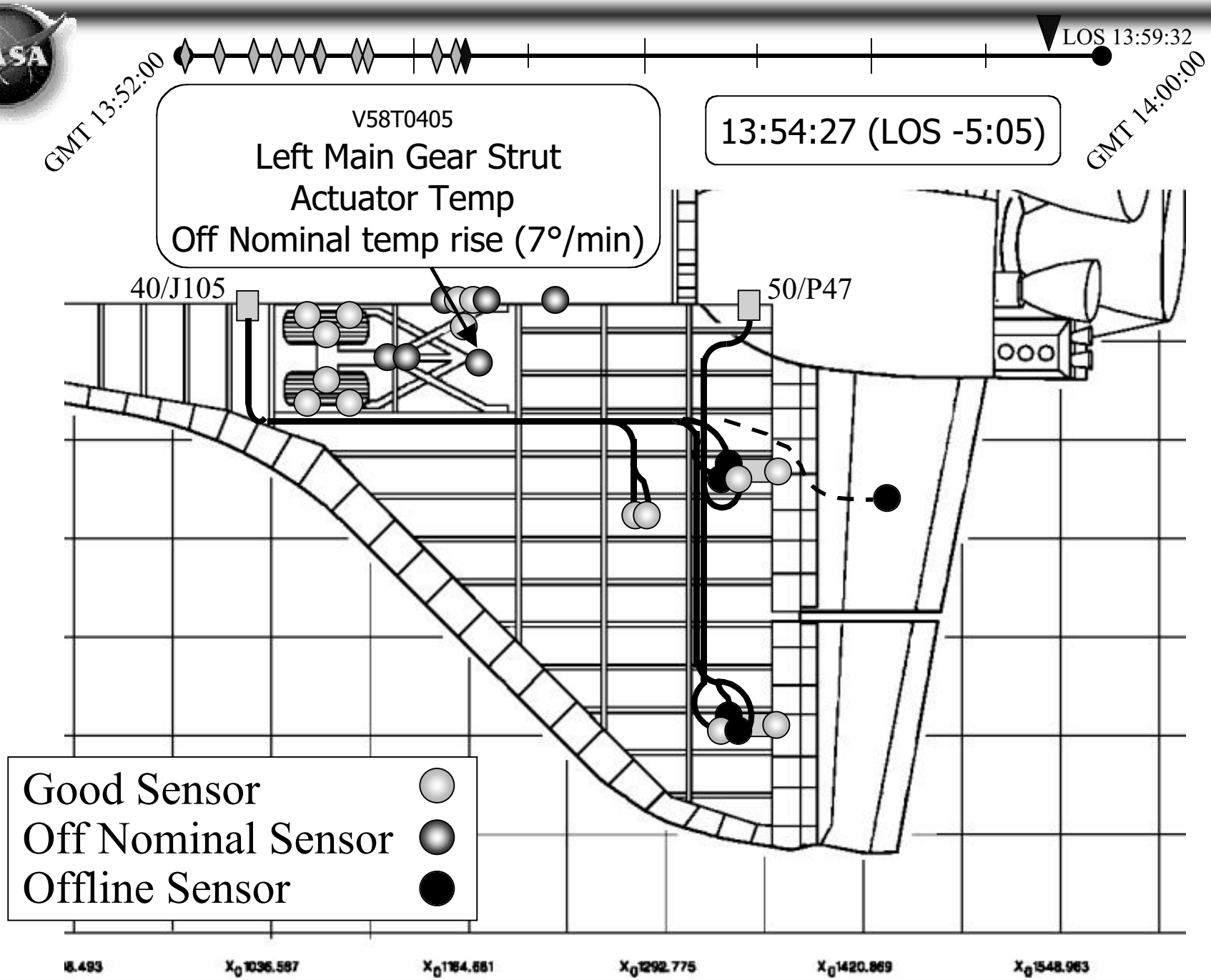

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T0157
Hyd Sys 1 Left Inboard Elevon
Actuator Return Line Temp
Goes off line
13:53:11 (LOS -6:21)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963

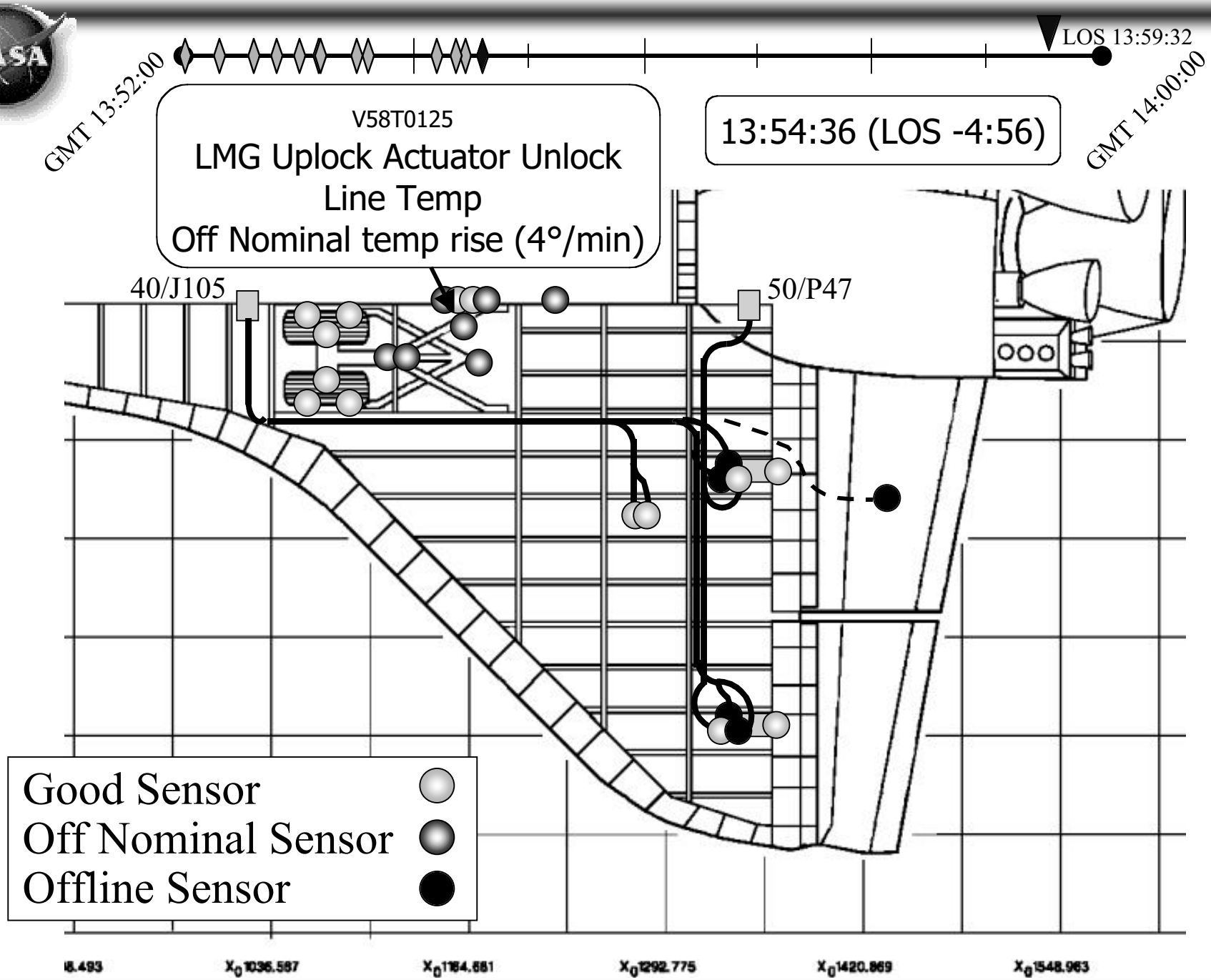

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T0193
Hyd Sys 1 Left Outboard Elevon
Actuator Return Line Temp
Goes off line
13:53:31 (LOS -6:01)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor

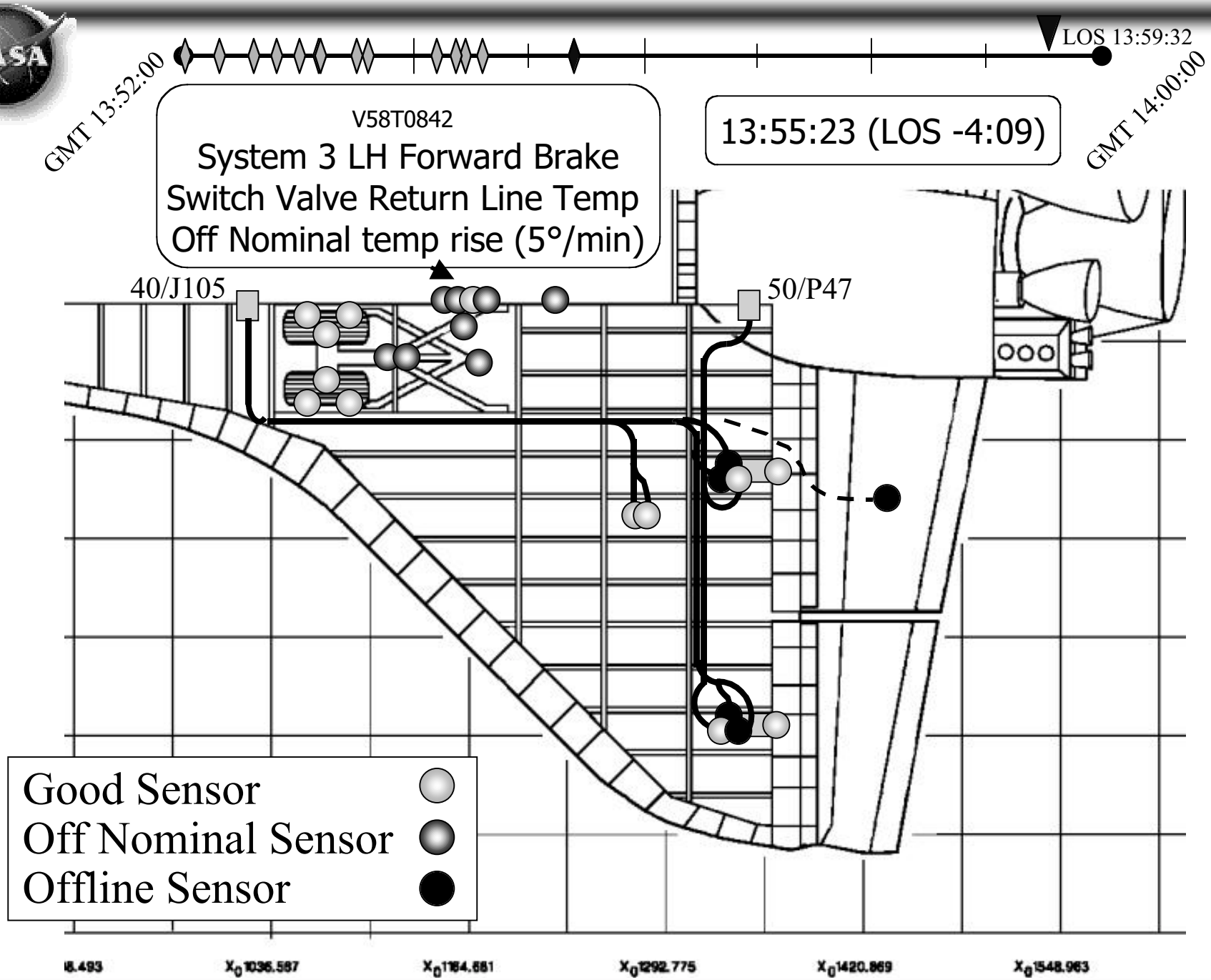

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T0257
Hyd Sys 2 Left Inboard Elevon
Actuator Return Line Temp
Goes off line
13:53:36 (LOS -5:56)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963

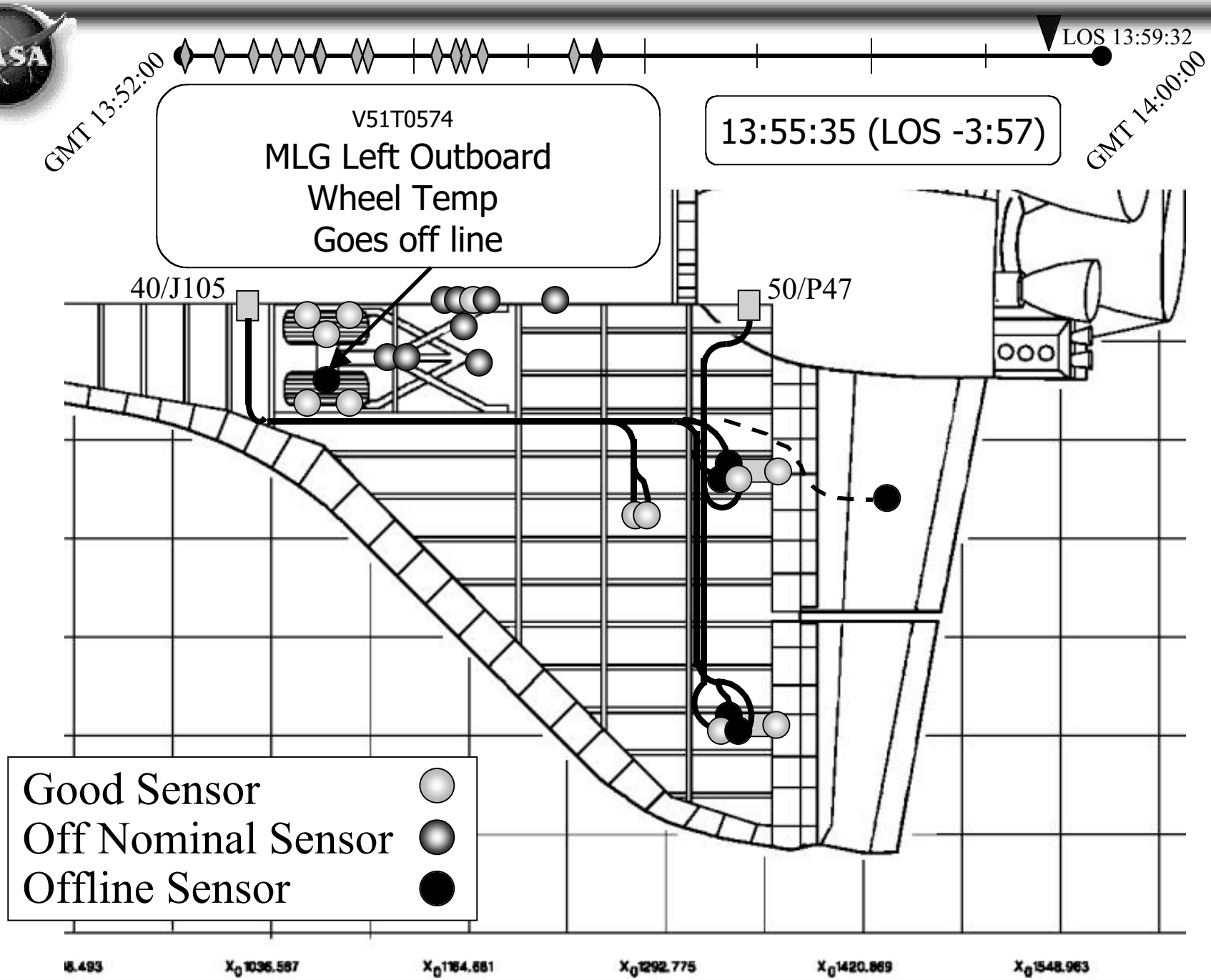

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T1701
Left Main Gear Brake Line
Temp B
Off Nominal temp rise (6°/min)
13:54:13 (LOS -5:19)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963

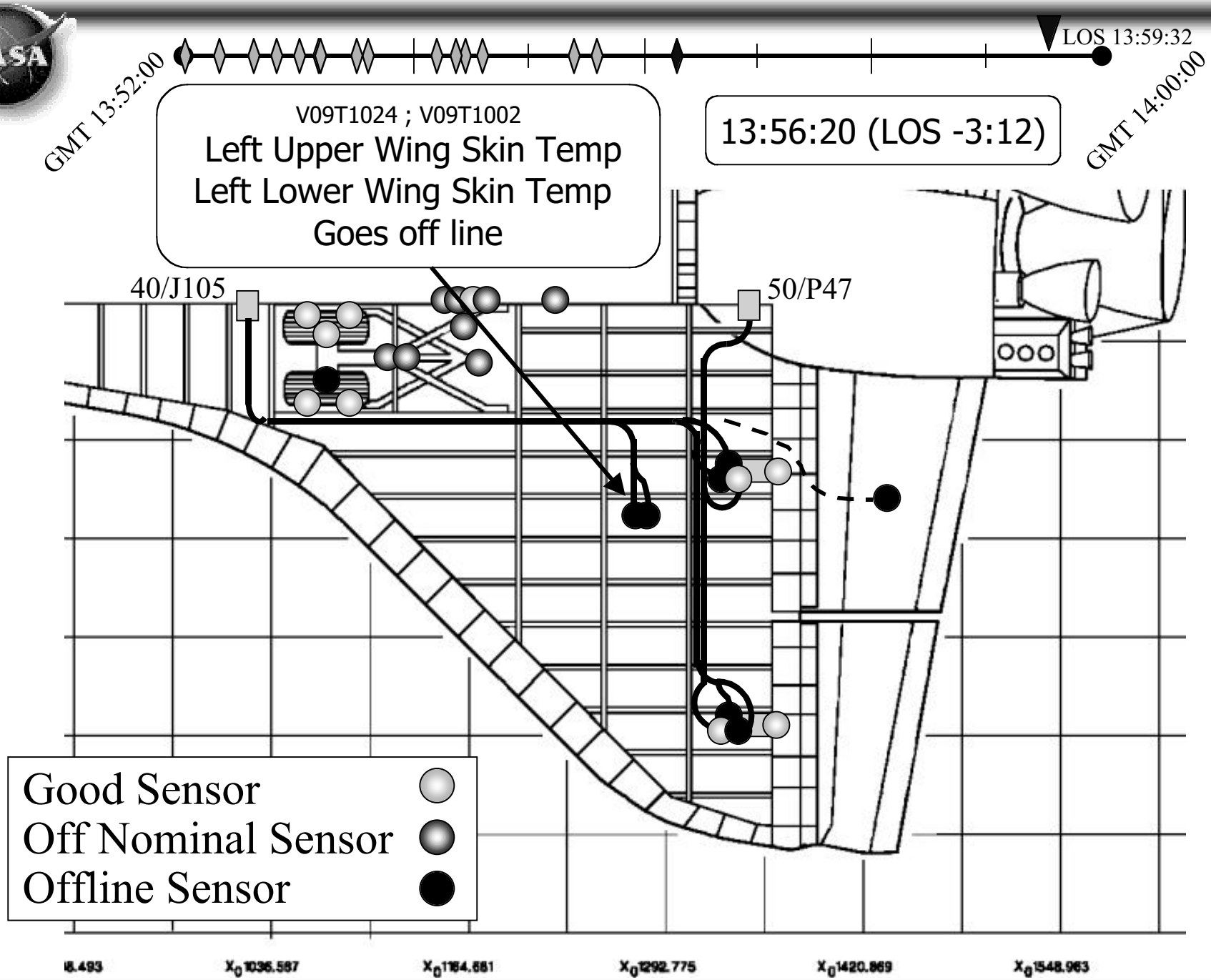

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V34T1106
Mid Fuselage Left Body Line
Temp at x1215
Off Nominal temp rise (6°/min)
13:54:22 (LOS -5:10)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963

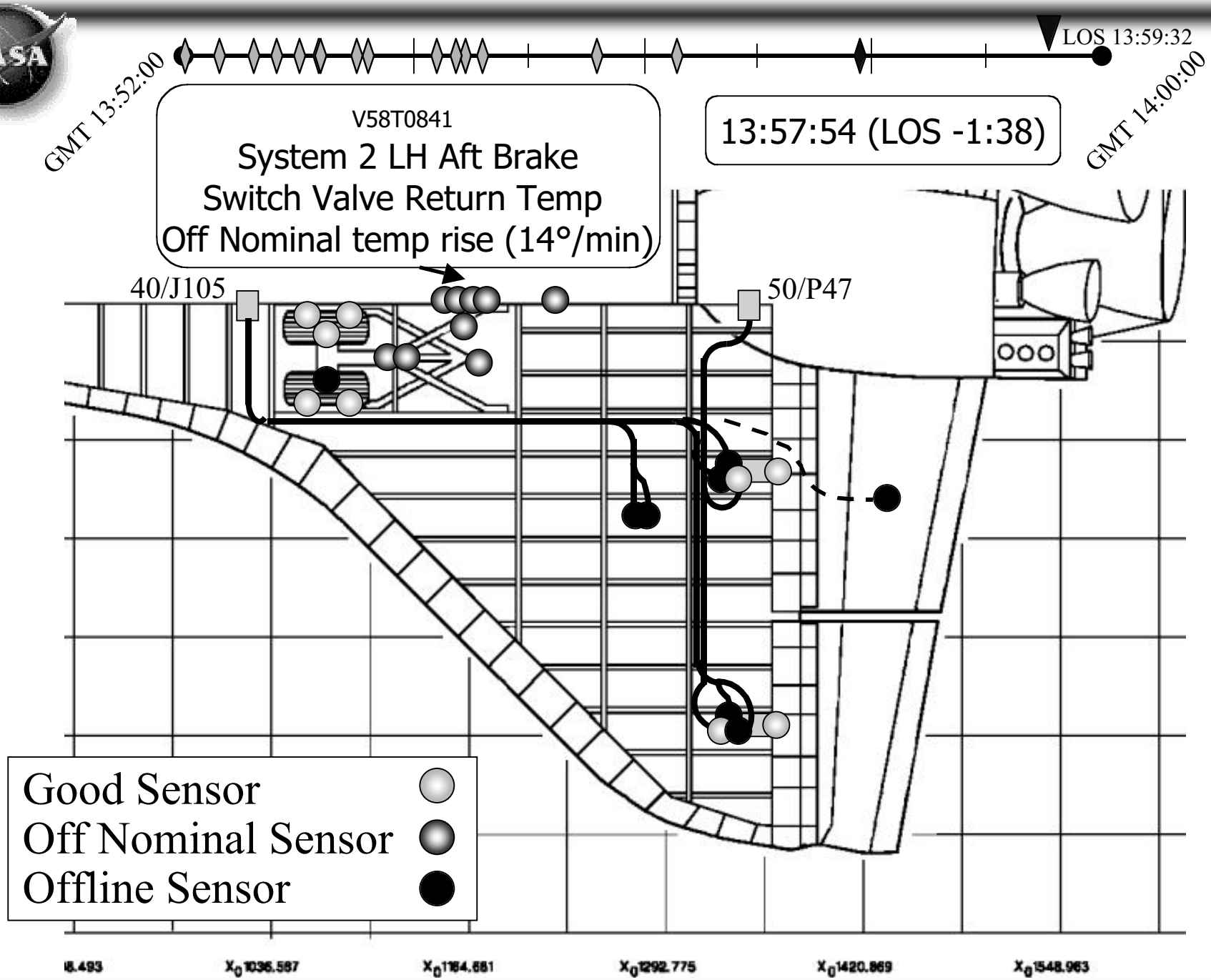

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T0405
Left Main Gear Strut
Actuator Temp
Off Nominal temp rise (7°/min)
13:54:27 (LOS -5:05)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963

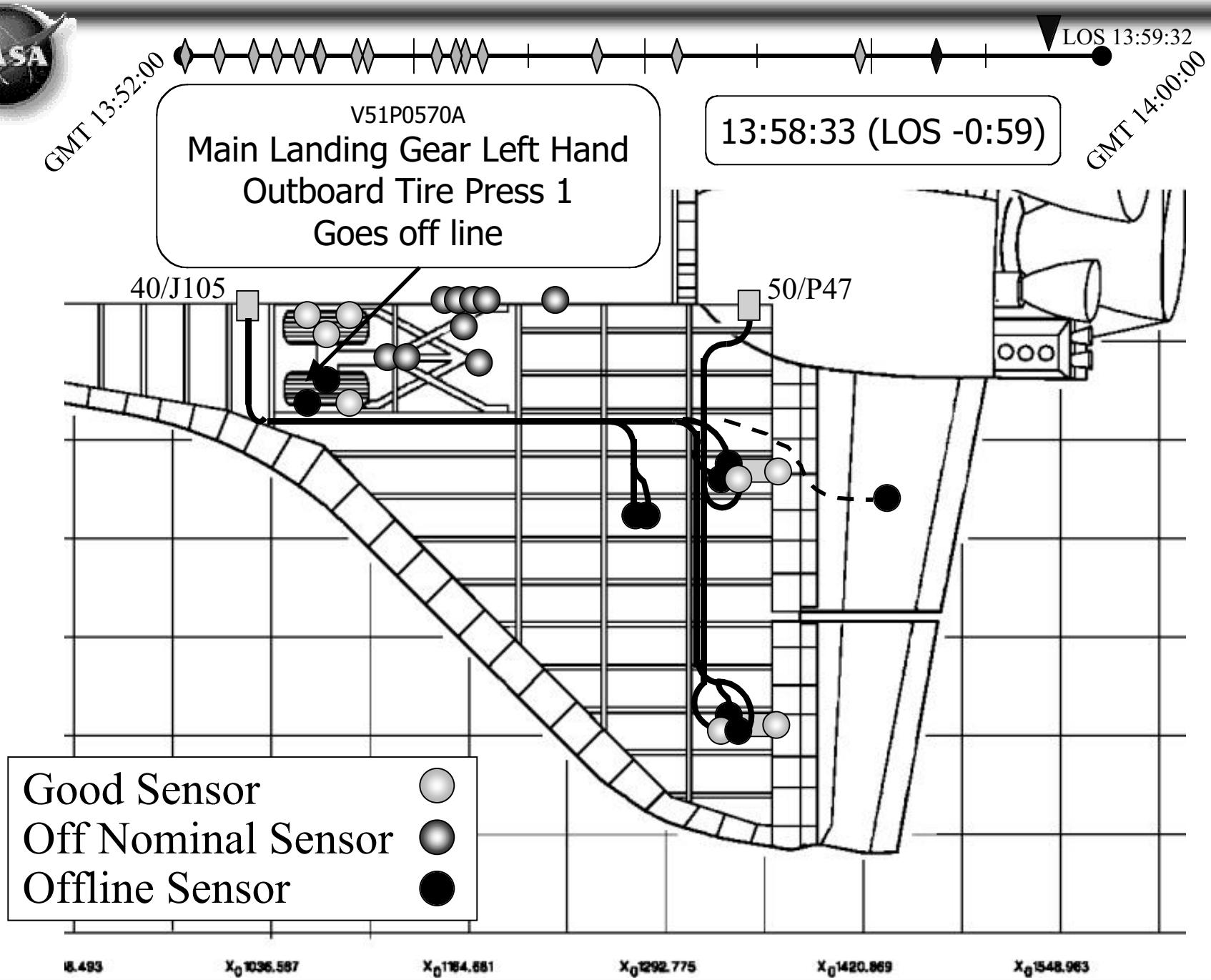

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T0125
LMG Uplock Actuator Unlock
Line Temp
Off Nominal temp rise (4°/min)
13:54:36 (LOS -4:56)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963

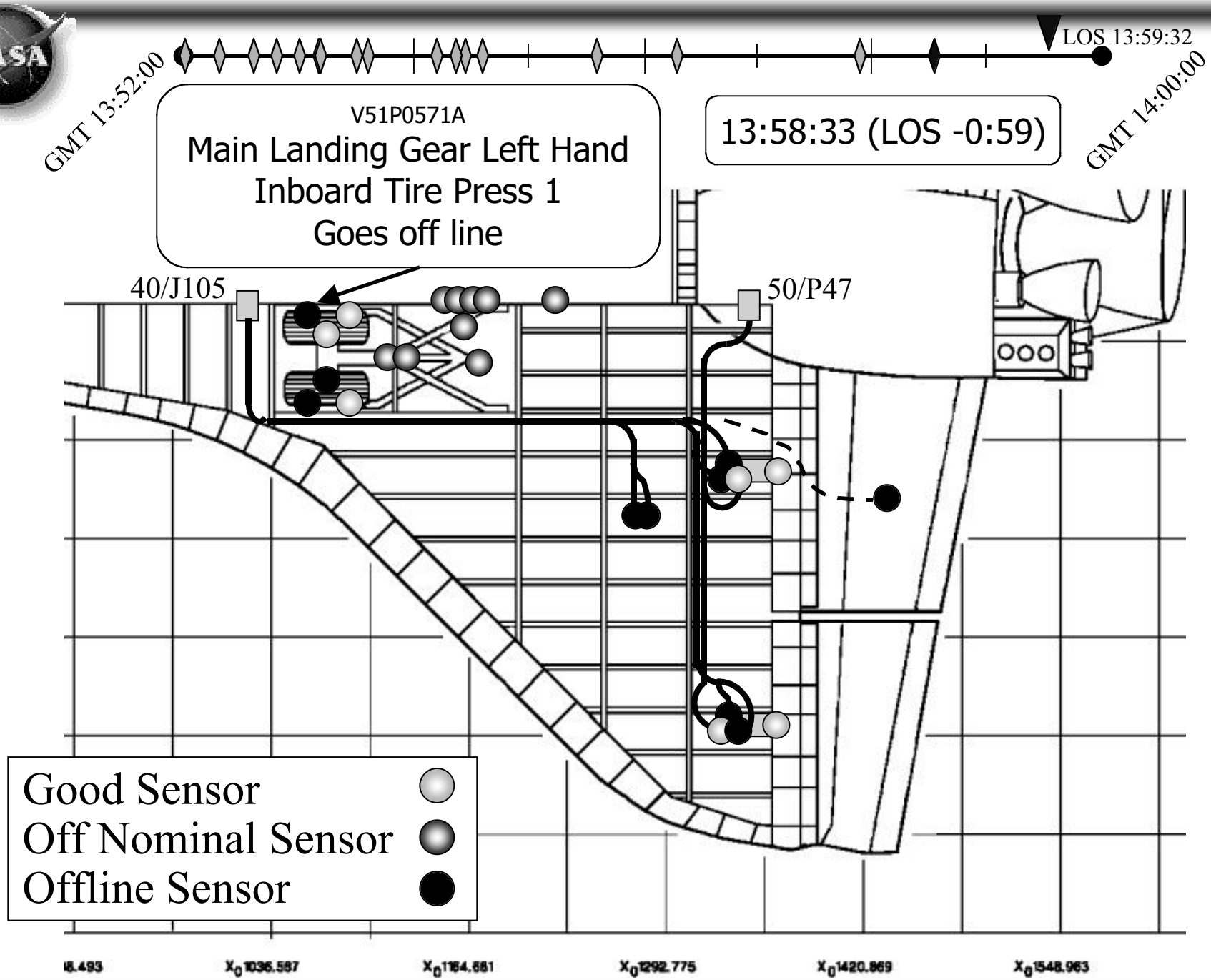

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T0842
System 3 LH Forward Brake
Switch Valve Return Line Temp
Off Nominal temp rise (5°/min)
13:55:23 (LOS -4:09)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor

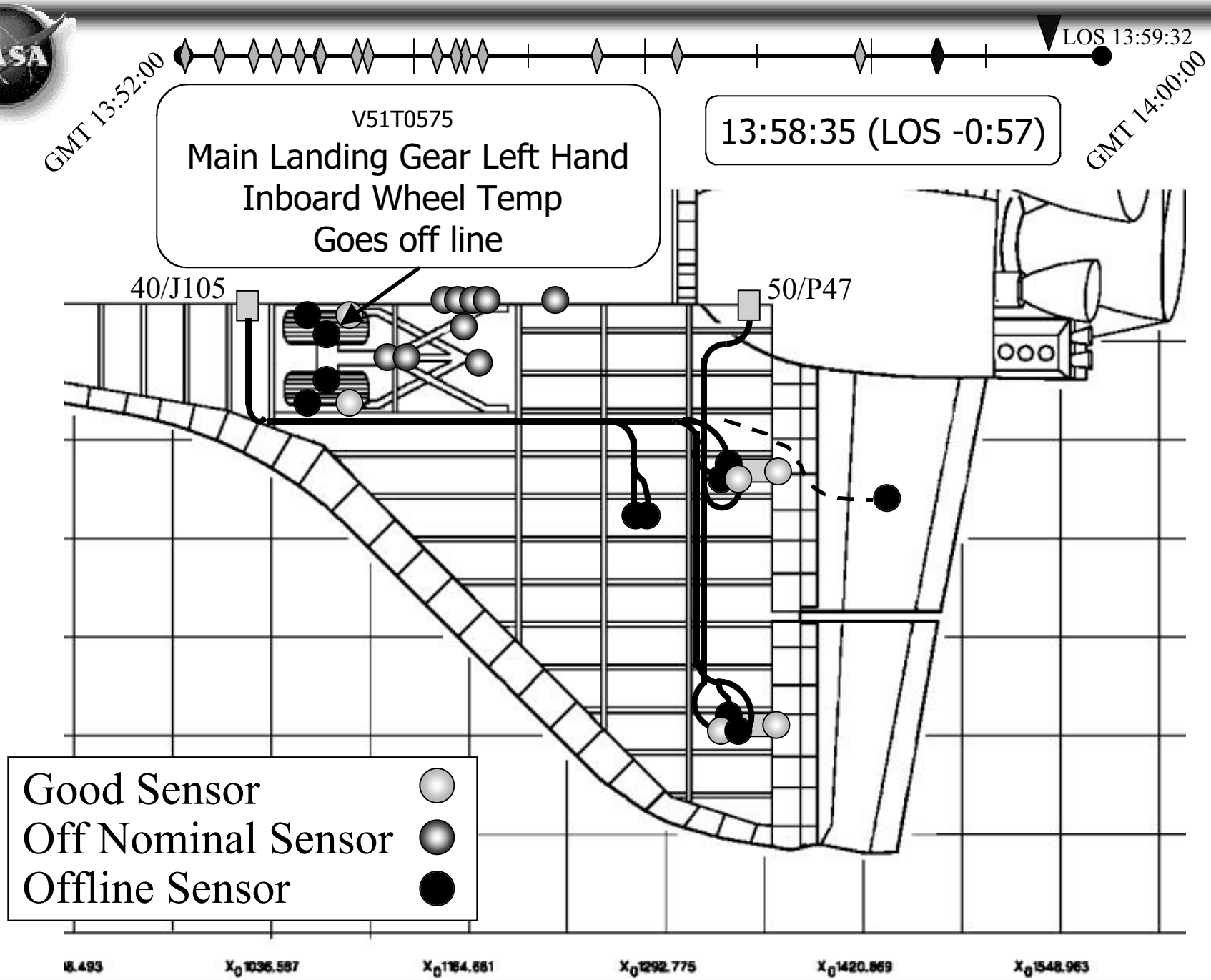

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V51T0574
MLG Left Outboard
Wheel Temp
Goes off line
13:55:35 (LOS -3:57)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963

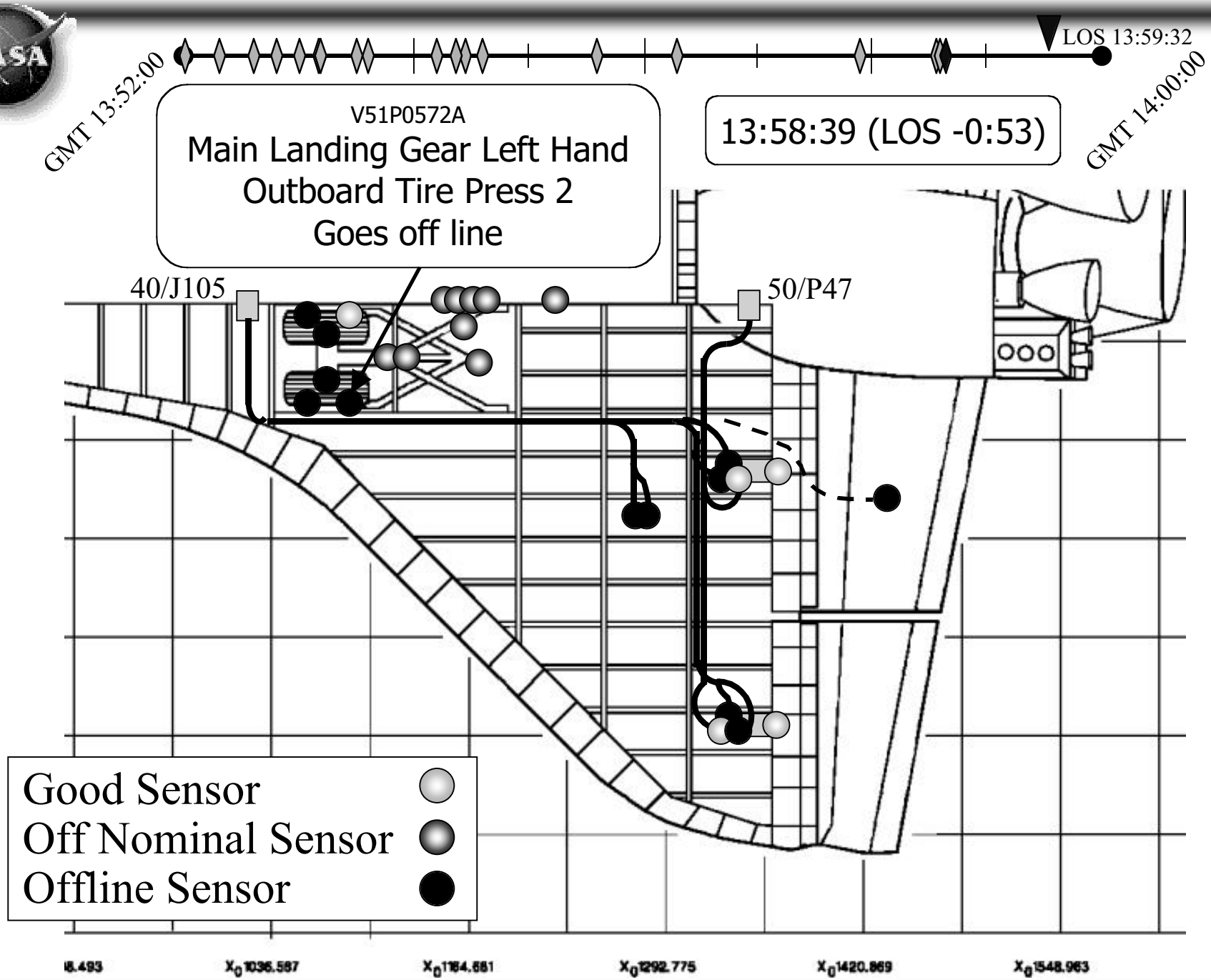

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V09T1024 ; V09T1002
Left Upper Wing Skin Temp
Left Lower Wing Skin Temp
Goes off line
13:56:20 (LOS -3:12)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963

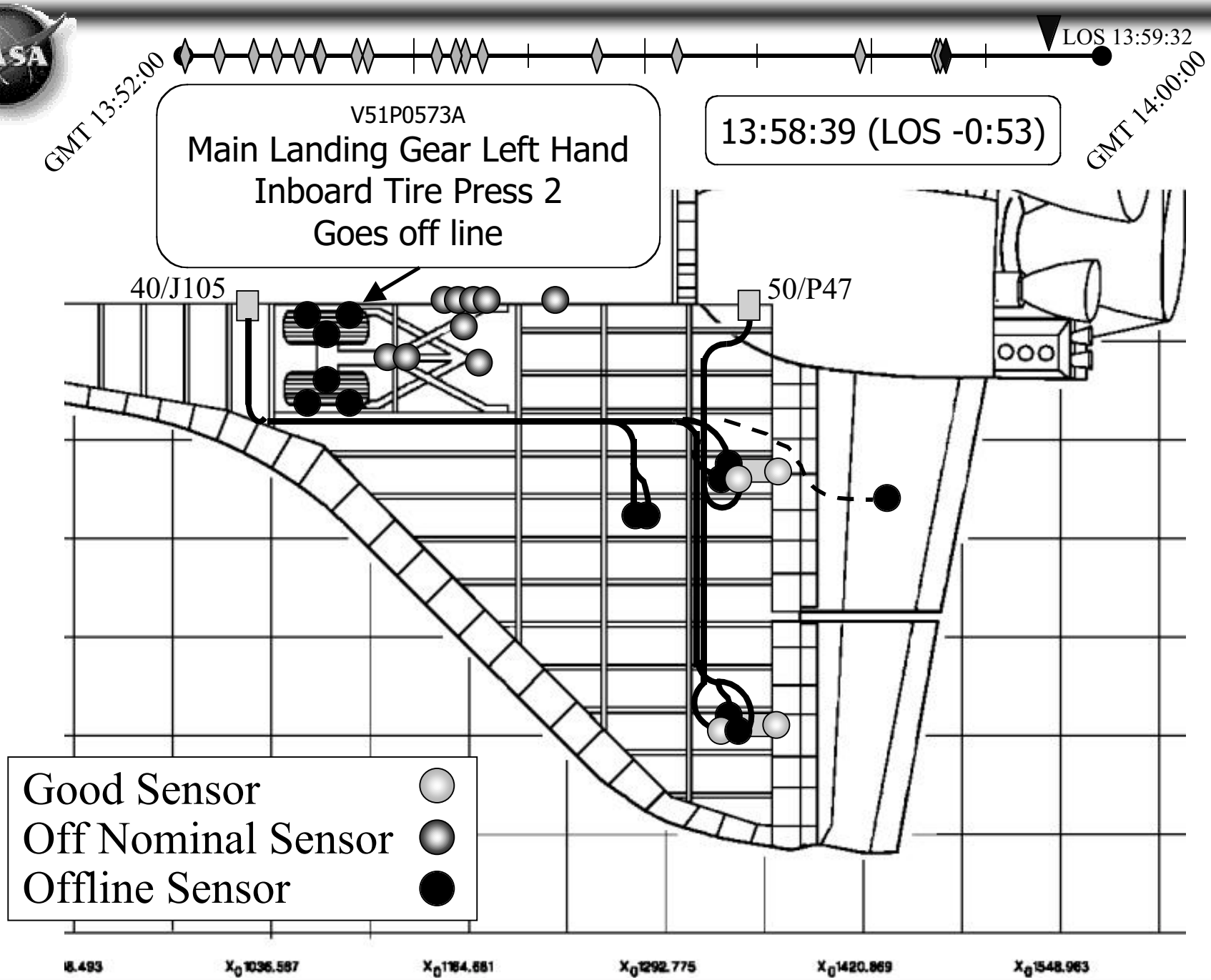

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V58T0841
System 2 LH Aft Brake
Switch Valve Return Temp
Off Nominal temp rise (14°/min)
13:57:54 (LOS -1:38)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor

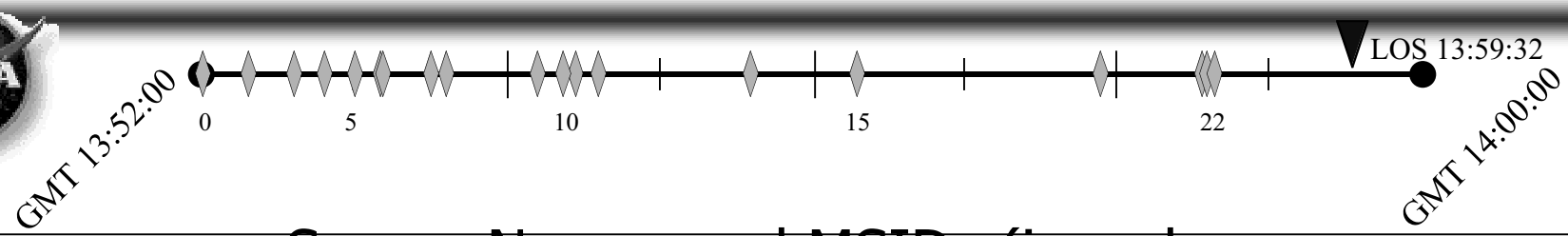

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V51P0570A
Main Landing Gear Left Hand
Outboard Tire Press 1
Goes off line
13:58:33 (LOS -0:59)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963


GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V51P0571A
Main Landing Gear Left Hand
Inboard Tire Press 1
Goes off line
13:58:33 (LOS -0:59)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor


GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V51T0575
Main Landing Gear Left Hand
Inboard Wheel Temp
Goes off line
13:58:35 (LOS -0:57)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963

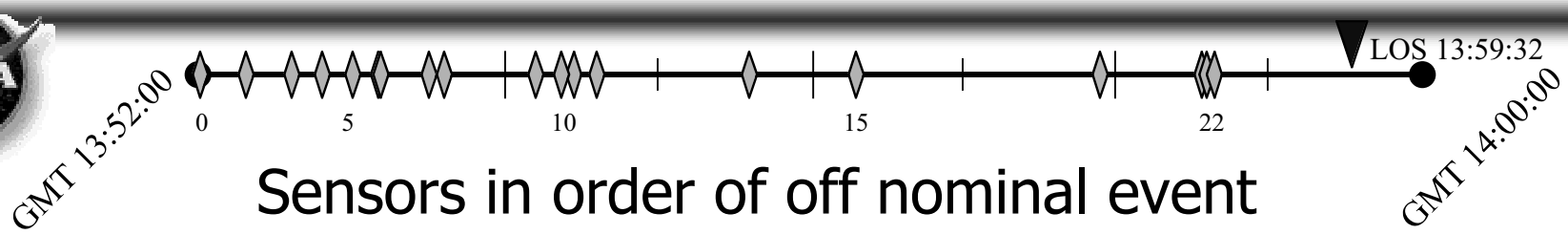

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V51P0572A
Main Landing Gear Left Hand
Outboard Tire Press 2
Goes off line
13:58:39 (LOS -0:53)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor

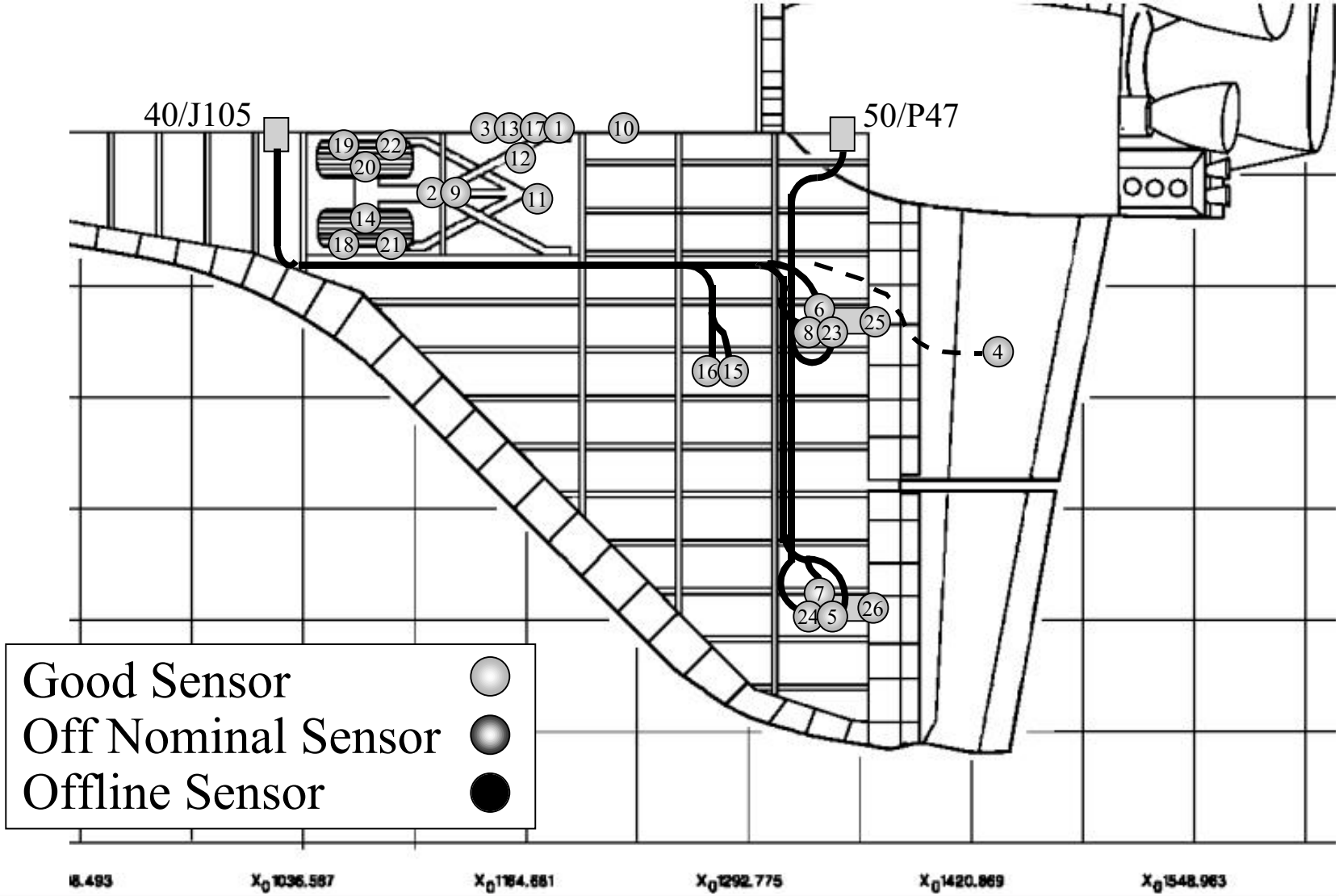

GMT 13:52:00
LOS 13:59:32
GMT 14:00:00
V51P0573A
Main Landing Gear Left Hand
Inboard Tire Press 2
Goes off line
13:58:39 (LOS -0:53)
40/J105
50/P47
Good Sensor
Off Nominal Sensor
Offline Sensor
X0 1036.587
X0 1164.681
X0 1292.775
X0 1420.869
X0 1548.963




# Sensor Names and MSIDs (in order of off nominal event)

| No. | Measurement Nomenclature | MSID | No. | Measurement Nomenclature | MSID |
|---|---|---|---|---|---|
| 1 | LMG Brake Line Temp D | V58T1703A | 14 | MLG LH Outbd Wheel Temp | V51T0574A |
| 2 | LMG Brake Line Temp A | V58T1700A | 15 | LH UPR Wing Skin Temp | V09T1024 |
| 3 | LMG Brake Line Temp C | V58T1702A | 16 | LH LWR Wing Skin Temp | V09T1002 |
| 4 | LH Inbd Elev LWR Skin Temp | V09T1006 | 17 | Hyd 2 LH Aft Brake Sw Vlv Rtn Ln T | V58T0841A |
| 5 | Hyd Sys 3 LOE Rtn Ln T | V58T0394A | 18 | MLG LH Outbd Tire Press 1 | V51P0570A |
| 6 | Hyd 1 LH Inbd Elvn Actr Rtn Ln T | V58T0157A | 19 | MLG LH Inbd Tire Press 1 | V51P0571A |
| 7 | Hyd Sys 1 LOE Rtn Ln T | V58T0193A | 20 | MLG LH Inbd Wheel Temp | V51T0575A |
| 8 | Hyd 2 LH Inbd Elvn Actr Rtn Ln T | V58T0257A | 21 | MLG LH Outbd Tire Press 2 | V51P0572A |
| 9 | LMG Brake Line Temp B | V58T1701A | 22 | MLG LH Inbd Tire Press 2 | V51P0573A |
| 10 | M-Fus Lt BL Temp at 1215 | V34T1106 | 23 | Hyd Sys 3 LH Inbd Elvn Rtn Ln Temp | V58T0833A |
| 11 | L Main Gear Strut Actuator Temp | V58T0405A | 24 | Hyd Sys 2 LH Otbd Elvn Rtn Ln Temp | V58T0883A |
| 12 | Hyd Sys 1 LMG Uplk Actr Unlk Ln T | V58T0125A | 25 | Hydr Sys LH Inbd Elvn Actr Temp | V58T0830A |
| 13 | Hyd 3 LH Fwd Brake Sw Vlv Rtn Ln T | V58T0842A | 26 | Hydr Sys LH Outbd Elvn Actr Temp | V58T0880A |




# Sensors in order of off nominal event