NTSB ERA14FA045, Attachment 1 to Digital Engine Controls Specialist's Factual Report

Operator: Aero JL SA de CV

Registration: XA-USD

Source of data: Honeywell Report of engine 1 (left) and engine 2 (right) Digital Electronic Engine Control (DEEC)

Date of Event: 11/19/2013

Location: Ft Lauderdale, Florida

Honeywell

Download and Analysis of Two N1 Digital Electronic Engine Controls

from

Ft Lauderdale, Florida

Learjet Model 35A Accident Aircraft

Registration XA-USD

Honeywell

Download and Analysis of Two N1 Digital Electronic Engine Controls from Ft Lauderdale, Florida Learjet Model 35A Accident Aircraft Registration XA-USD

Approved by: _____

Jim Allen
Product Integrity

Revision	By	Approved	Date	Pages and /or Paragraphs Affected
New	JE		1/31/2014	All (Initial Issue)

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1. INTRODUCTION AND SUMMARY

PURPOSE

This report presents the findings of the investigation of two N1 Digital Electronic Engine Controls (N1 DEECs) at the Honeywell Aerospace facility in Tucson, Arizona on December 19th, 2013.

The investigation was conducted at the request of the National Transportation Safety Board (NTSB). The examination was performed under the supervision of the Scottsdale Flight Standards District Office (FSDO).

BACKGROUND

The N1 DEEC's, S/N's 45-CF0149 and 45-CF0152 were installed on two TFE731-2-2B engines, serial numbers P74717 (LH) and P74715 (RH) (see note 1 below), of a Bombardier Learjet 35A aircraft, Registration Number XA-USD, Serial Number 35A-255, which crashed into the Atlantic Ocean near Ft. Lauderdale, FL, on November 19, 2013. The aircraft was destroyed and the four persons on board were fatally injured. The aircraft had departed Ft. Lauderdale International Airport bound for Cozumel, Mexico.

SUMMARY

The download of the incident recorder data from both N1 DEECs was completed successfully. Analysis of the data indicated that both engines were rotating, operating, and responding to power lever inputs. During a time period of 35 seconds, N1 rolled back, uncommanded, from a value of 90%- 95% down to a value of 60%-65% and returned to 80-85%. During this 35 seconds of time, PLA did not move. Both the left and right engines were operating at an N1 RPM of between 85-95% for the last 60 seconds of the flight along with an N2 RPM of between 90-101.5% for the same time period all the way to impact.

[1] For the purpose of this background information, the identification and assignment of N1 DEECs to the appropriate left and right engine is based on records and information provided by the NTSB.

2. FINDINGS OF DEEC, SERIAL NUMBER 45-CF0149, FROM ENGINE SERIAL NUMBER P74717, LEFT NACELLE

2.1. GENERAL

(a) The DEEC circuit card was delivered in a brown cardboard box. (Figure 1 and Figure 2)
(b) The DEEC circuit card was packaged with Styrofoam "peanuts". (Figure 3)
(c) The DEEC circuit card was enclosed in a non-ESD (Electro Static Discharge) protective plastic bag. (Figure 4)
(d) Water was present within the non-ESD plastic bag. (Figure 5)
(e) The DEEC circuit card was wrapped in two layers of non-ESD plastic bubble wrap. (Figure 6)
(f) The DEEC circuit card was partially wrapped in an ESD bag with the open end taped closed with non-ESD adhesive tape. (Figure 7)
(g) The DEEC circuit card was wrapped with several layers of a wet, cloth material. (Figure 8)
(h) The DEEC housing was not returned with the DEEC circuit card.
(i) The DEEC circuit card was marked with the text "NTSB #A" (Figure 9 and Figure 10, denoted with red arrow)
(j) As instructed by the NTSB, this identifier indicates this circuit card is associated with the DEEC S/N 45-CF0149. (Appendix Q)
(k) The data tab on the circuit board from DEEC S/N 45-CF0149 contained the following information: (Figure 11)
- 64547 ASSY C/L
- 4243294-15 BA
- B52003-1-0518

(l) Caps were not present over the sensor inlet ports. (Figure 10, black arrows)
(m) The dataplate identified the unit as part number 2119020-4004 and serial number 45-CF0149. The series number was unreadable from the images provided. (Figure 12)
(n) The DEEC circuit card was carefully rinsed with de-ionized fresh water. (Figure 13)
(o) After the de-ionized water rinse, the DEEC circuit card was subjected to a Zestron 15% alkaline cleaning process. (Figure 14 and Figure 15)
(p) The DEEC circuit card was placed in an oven for drying (Figure 16, Figure 17, and Figure 18). The drying cycle consisted of 164 hours at 40 Deg Celsius.
(q) After the drying cycle was complete on December 16, 2013 the circuit board was removed from the oven and allowed to cool to room temperature. The board was then placed in protective packaging for transportation to Honeywell's Tucson facility for extraction of the data.

2.2. DOWNLOAD OF INCIDENT RECORDER DATA

(a) The circuit card was transported and received in an ESD, hard case container. (Figure 31)
(b) The circuit cards from both engine N1 DEECs were individually packaged in ESD bags, protected with ESD sensitive bubble wrap, and individually labeled. (Figure 32 and Figure 33)
(c) Due to the units having been under water for 2 weeks, exposed to salt water and the potential for corrosion, the team decided not to power up the unit to download the Engine Condition Trend Monitoring (ECTM) and incident recorder data. The team decided that the best course of action would be to remove the NVM IC chip from the circuit card and make a duplicate copy of it (clone it) for use in a slave N1 DEEC unit.
(d) To facilitate removing the NVM IC chip, the conformal protective coating was removed around the chip by heating the board and applying a solvent.
(e) The NVM IC chip was de-soldered from the circuit board. (Figure 34 and Figure 35)
(f) The original NVM chip was labeled with "CF0149 MASTER". (Figure 36)
(g) The NVM chip was installed in a Data IO Programmer 3980 to copy the data from the chip to a personal computer (PC) (Figure 37 and Figure 38)
(h) The download was performed successfully.
(i) The data was then copied from the PC onto a slave NVM IC chip to be used for download. (Figure 39)
(j) The slave NVM IC chip was then installed into a slave DEEC to download the ECTM file which contains the incident recorder data. (Figure 40)
(k) The ECTM file was then downloaded using the Production Test Bench. (Figure 41)
(l) The data was copied onto floppy disks at the production test bench and later used for analysis. (Figure 42)

2.3. DOWNLOAD OF FAULT HISTORY DATA

(a) In addition to the incident recorder data, the N1 DEEC also records fault information associated with the operation of the unit and of the engine. The following faults were recorded by the N1 DEEC associated with its operation of the engine during the accident flight (See also Appendix M):
   a. Time 6534:48:21.8: Fault 38 - TT2 Short Circuit, TT2 < 190 ohms
   b. Time 6534:48:21.7: Fault 211 - Fuel Control PLA Circuit Failure

c. Time 6534:48:21.6: Fault 26 - ITT thermocouple circuit open, circuit fail, Defaults to 260 C
d. Time 6534:48:21.6: Fault 237 - NOTICE ECTM Data buffers filled, Download required to prevent data loss.
e. Time 6534:48:21.6: Fault 237 - NOTICE ECTM Data buffers filled, Download required to prevent data loss.
f. Time 6534:47:21.9: Fault 237 - NOTICE ECTM Data buffers filled, Download required to prevent data loss.
g. Time 6534:47:21.8: Fault 43 - Total Pressure rate change fail, (PT2) > 10 Psia per second

Appendix K details the faults in a chronological order as recorded by the left engine N1 DEEC.

3. FINDINGS OF DEEC, SERIAL NUMBER 45-CF0152, FROM ENGINE SERIAL NUMBER P71715, RIGHT NACELLE

3.1. GENERAL

(a) The DEEC circuit card was delivered in a brown cardboard box. (Figure 19 and Figure 20)
(b) The DEEC circuit card was packaged with Styrofoam "peanuts". (Figure 21)
(c) The DEEC circuit card was enclosed in a non-ESD (Electro Static Discharge) protective plastic bag. (Figure 22)
(d) Water was present within the non-ESD plastic bag. (Figure 22)
(e) The DEEC circuit card was wrapped in two layers of non-ESD plastic bubble wrap. (Figure 23)
(f) The DEEC circuit card was partially wrapped in an ESD bag with the open end taped closed with non-ESD adhesive tape. (Figure 24)
(g) The DEEC circuit card was wrapped with several layers of a wet, cloth material. (Figure 25)
(h) The DEEC housing was not returned with the DEEC circuit card.
(i) The DEEC circuit card was marked with the text "NTSB #B" (Figure 26 and Figure 27, denoted with red arrow)
(j) As instructed by the NTSB, this identifier indicates this circuit card is associated with the DEEC S/N 45-CF0152. (Appendix Q)
(k) The data tab on the circuit board from DEEC S/N 45-CF0149 contained the following information: (Figure 28)
- 64547 ASSY C/L
- 4243294-15 BA
- B52001-1-0518

(l) Caps were not present over the sensor inlet ports. (Figure 27, black arrows)

(m) The dataplate identified the unit as part number 2119020-4004, Series 5, and serial number 45-CF0152. (Figure 29)
(n) The DEEC circuit card was carefully rinsed with de-ionized fresh water. (Figure 30)
(o) After the de-ionized water rinse, the DEEC circuit card was subjected to a Zestron 15% alkaline cleaning process. (Figure 14 and Figure 15)
(p) The DEEC circuit card was placed in an oven for drying (Figure 16, Figure 17, and Figure 18). The drying cycle consisted of 164 hours at 40 Deg Celsius.
(q) After the drying cycle was complete on December 16, 2013 the circuit board was removed from the oven and allowed to cool to room temperature. The board was then placed in protective packaging for transportation to Honeywell's Tucson facility for extraction of the data.

3.2. DOWNLOAD OF INCIDENT RECORDER DATA

(a) The circuit card was transported and received in an ESD, hard case container. (Figure 31)
(b) The circuit cards from both engine N1 DEECs were individually packaged in ESD bags, protected with ESD sensitive bubble wrap, and individually labeled. (Figure 32 and Figure 33)
(c) Due to the units having been under water for 2 weeks, exposed to salt water and the potential for corrosion, the team decided not to power up the unit in order to download the Engine Condition Trend Monitoring (ECTM) and incident recorder data. The team decided that the best course of action would be to remove the NVM IC chip from the circuit card and make a duplicate copy of it (clone it) for use in a slave N1 DEEC unit.
(d) To facilitate removing the NVM IC chip, the conformal protective coating was removed around the chip by heating the board and applying a solvent.
(e) The NVM IC chip was de-soldered from the circuit board. (Figure 43 and Figure 44)
(f) The original NVM chip was labeled with "CF0152 MASTER". (Figure 36)
(g) The NVM chip was installed in a Data IO Programmer 3980 to copy the data from the chip to a personal computer (PC) (Figure 38 and Figure 46)
(h) The download was performed successfully.
(i) The data was then copied from the PC onto a slave NVM IC chip to be used for download. (Figure 47)
(j) The slave NVM IC chip was then installed into a slave DEEC to download the ECTM file which contains the incident recorder data. (Figure 40)
(k) The ECTM file was then downloaded using the Production Test Bench. (Figure 41)

(l) The data was copied onto floppy disks at the production test bench and later used for analysis. (Figure 42)

3.3. DOWNLOAD OF FAULT HISTORY DATA

(b) In addition to the incident recorder data, the N1 DEEC also records fault information associated with the operation of the unit and of the engine. The following faults were recorded by the N1 DEEC associated with its operation of the engine during the accident flight (See also Appendix N):

a. Time 6564:29:58.2: Fault 237 - NOTICE ECTM Data buffers filled, Download Required to prevent data loss.
b. Time 6564:29:57.4: Fault 38 - TT2 Short Circuit, (TT2 < 190 ohms)
c. Time 6564:29:57.3: Fault 211 - Fuel Control PLA Circuit Failure
d. Time 6564:29:57.2: Fault 26 - ITT thermocouple circuit open circuit fail, Defaults to 260 C

Appendix L details the faults in a chronological order as recorded by the right engine N1 DEEC.

4. ANALYSIS AND CONCLUSIONS

4.1. ANALYSIS

The PN 2119020-4004 DEECs include an incident recorder which collects engine and aircraft operational data and records it into Non-Volatile Memory (NVM) for post accident/incident download and analysis. The purpose of this recorder is to provide a record of engine speeds and inter-turbine temperatures, aircraft parameters relating to the engine, and control modes during operation. It should be noted that the DEEC casing is not designed to be crash worthy, and memory data could be lost for a variety of reasons including, but not limited to, impact and fire damage.

The incident recorder collects data into ten memory buffers for the last 85 minutes, 20 seconds of engine ground and/or flight time while the DEEC is powered. The recorder will automatically power off approximately five minutes after weight-on-wheels (WOW) is established. This feature prevents the DEEC from accidentally overwriting the data in memory if aircraft power remains on after the engines have been shut down.

The incident recorder stores the following parameters in NVM:

N1 (Low Pressure spool % speed)	N2 (High Pressure spool % speed)
ITT (inter-turbine temperature)	WOW (weight-on-wheels)
Mach	PLA (power lever angle)
ALT (pressure altitude)	TR (thrust reverser deploy)
Control Mode (auto / manual)	Time Stamp

The data set stored in the first memory buffer is recorded once per second for the last 512 seconds (8 minutes, 32 seconds) prior to power down. For data sets recorded beyond 512 seconds, individual scans are stored in nine additional buffers with decreasing frequency. As data points roll into the downstream buffers, data points are dropped. For example, the data points in the second buffer are two seconds apart and the data points in the third buffer are 4 seconds apart, and so on. The recorder scan frequency is shown in Appendix A.

The data is recorded in data “buckets” to minimize the space required for data storage. With this recording methodology, the actual discreet data parameter is not physically recorded to memory. A digital bit value that corresponds to a data parameter range is recorded to memory whenever a parameter is within a given range. Bucket values and resolutions are shown in Appendix B.

To facilitate the plotting of data into a chart format, bucket value ranges are rolled to a single value reflected as a nominal value for each range, for

example a bucket value range of 30% to 40% speed will be shown on a graphical chart as 35% speed. This results in transient data being displayed in a "stair-step" fashion, and not the smooth transient change that actually occurs during operation. Some of the parameters have finer bucket ranges than others, giving some parameters greater resolution than other parameters.

It should be noted that, for this particular version of the N1 DEEC, the values for weight on wheels (WOW), mach number, and thrust reverser (TR) deployment are internally calculated values based on N1 speed, total pressure (PT2), and static pressure. WOW, Mach, and TR Deploy are not directly obtained aircraft signals. This should be taken into consideration when analyzing and viewing the incident data in this report.

4.1.1. INCIDENT RECORDER RAW DATA DOWNLOAD

The incident recorder data from the accident flight was downloaded from a slave copy NVM chip installed in a slave N1 DEEC. The raw data for all recorded parameters for the last 5120 seconds are presented in Appendix C for the Left Hand engine S/N P-74717 and Appendix D for the Right Hand engine S/N P-74715. The data is presented in tabular form.

A look at the downloaded data using the Honeywell interface software called "ECTM" identified that the data downloaded from the CF0149 N1 DEEC was associated with engine S/N P-74717 (Appendix J) while the data downloaded from the CF0152 N1 DEEC was associated with the engine S/N P-74715 (Appendix I).

4.1.2. INCIDENT RECORDER DATA ANALYSIS

Appendix H shows a chart of all of the parameter data for the two engines for the entire span of the NVM data, 5120 seconds, as it was downloaded from the NVM chips. It was noticed that there were patterns in the N1 data plot with similar shapes that plotted at different times in the data (i.e., indicating a time shift between the left and right engine data). A thorough analysis of the data was required to try and understand the anomaly.

An analysis was performed of the N1 DEEC data file chronology records (Appendix K and Appendix L) in order to help explain the timing anomaly between the two engines in the N1 DEEC incident data. A data file chronology record for the left engine (P-74717) is shown in Appendix K while the same information for the right engine (P-74715) is shown in Appendix L. Several faults were identified with the left engine (P-74717) during the accident flight that are of interest. Two faults in particular help to identify that a power cycle was applied to the N1 DEEC of the left engine during the accident flight. A "Manual Mode Transfer" occurred at

9:22.3 elapsed time. While in manual mode, Fault 237 "ECTM Data buffers filled" was recorded twice. This fault is generated when all of the data buffers become full and the system is going to start overwriting older data. This is a latched fault message in that it is always recorded at power up if it was valid at the last power down. The fact that two faults were recorded while in manual mode indicates that the N1 DEEC computer's power was cycled while in manual mode and before returning to auto mode. Based on the 0-512 data that was recorded, and the fact that the right engine N1 DEEC appeared to remain operating throughout the event, it was determined that the left engine N1 DEEC was powered down for approximately 9 seconds while in the manual mode. As such, an adjustment was made to the left engine data, increasing the overall recording by 9 seconds. The adjusted data charts for 0-512 seconds worth of data can be seen in Appendix O while the 161-373 seconds of data plots can be seen in Appendix P. Around the 164 second time position, the data was seen to be stable. Therefore, the left engine data was lengthened by 9 seconds by duplicating data at the 164 second time point and adding in 9 data points of identical data. The adjusted plots based on the chronology of fault information, indicates better alignment to the data between the left and right engines during the accident flight.

4.1.3. LEFT ENGINE (P-74717) DEEC ANALYSIS

The data from the last 512 seconds of the accident flight is shown in Appendix O while data between 161 and 373 seconds of data is shown in Appendix P. The data shows the following for the left engine:

- At 270 seconds the following events occur within 1-2 seconds of each other:
  - The N1 DEEC computer senses an N1 error in commanded speed to be less than -100 rpm, indicating the engine is slowing, unexpectedly, below the commanded value.
  - The N1 DEEC computer trips to manual mode.
  - N1 begins an abrupt rollback, eventually declining to a value between 60% and 65%.
  - The Mach value transitions below 0.15 and, as a consequence, the calculated weight on wheels (WOW) transitions from "in air" to "on ground".
- The N1 rollback lasts for approximately 35 seconds and eventually returns to a value of 80% to 85%.
- During the N1 rollback, there is no indication of movement of the power lever angle (PLA).
- Other than the 35 seconds of N1 rollback, the engine was responding to Power Lever (PLA) movements.

- N2 is unchanged throughout the N1 rollback as well as the rest of the flight.
- The PT2 rate limit exceedance fault, the N1 speed reduction, and the N1 DEEC dropping to manual mode all occur at approximately the same moment in the accident.

4.1.4. RIGHT ENGINE DEEC ANALYSIS

The data from the last 512 seconds of the accident flight is shown in Appendix O while data between 161 and 373 seconds of data is shown in Appendix P. The data shows the following for the right engine:

- The engine was operating and responding to Power Lever (PLA) movements.
- Altitude was indicated in the 2000 to 4000 ft parameter bucket starting at 247 seconds before impact and lasted for only 8 seconds before returning to an indicated altitude of less than 2000 feet.

4.2. CONCLUSIONS

The download of the incident recorder data from both N1 DEECs was completed successfully. Analysis of the data indicated that both engines were rotating, operating, and responding to power lever inputs. During a time period of 35 seconds, N1 rolled back, uncommanded, from a value of 90%- 95% down to a value of 60%-65% and returned to 80-85%. During this 35 seconds of time, PLA did not move. Both the left and right engines were operating at an N1 RPM of between 85-95% for the last 60 seconds of the flight along with an N2 RPM of between 90-101.5% for the same time period all the way to impact.

Figure 1. 45-CF0149 DEEC Circuit Card Shipping Box as Received

Figure 2. 45-CF0149 DEEC Circuit Card Shipping Box as Received

Figure 3. 45-CF0149 DEEC Circuit Card Packaging Materials as Received

Figure 4. 45-CF0149 DEEC Circuit Card Packaging Materials as Received

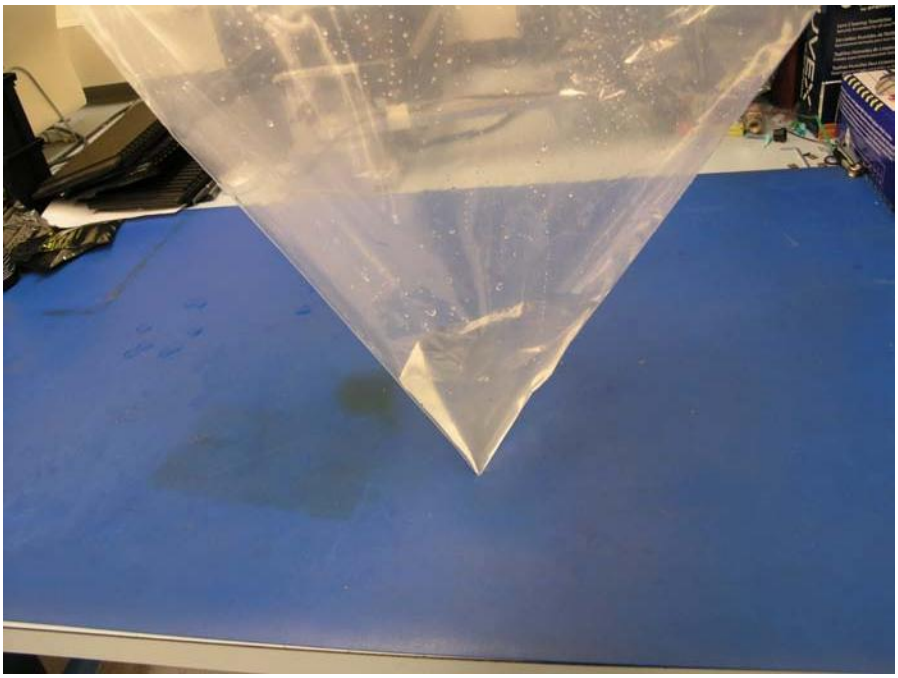


Figure 5. 45-CF0149 DEEC Circuit Card Packaging as Received

Figure 6. 45-CF0149 DEEC Circuit Card Bubble Wrap Packaging as Received

Figure 7. 45-CF0149 DEEC Circuit Card Packaging as Received

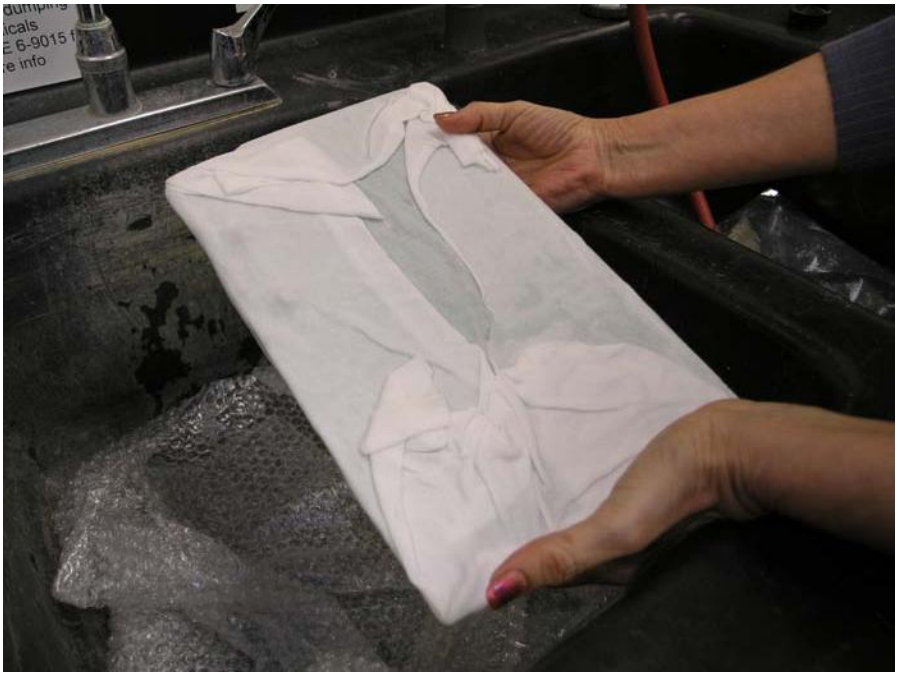


Figure 8. 45-CF0149 DEEC Circuit Card Packaging as Received

Figure 9. 45-CF0149 DEEC Circuit Card

Figure 10. 45-CF0149 DEEC Circuit Card

Figure 11. 45-CF0149 DEEC Circuit Card ID Plate

Figure 12. 45-CF0149 DEEC Data Plate (Photo Supplied by the NTSB)

Figure 13. 45-CF0149 DEEC Circuit Card Being Rinsed with De-Ionized Fresh Water

Figure 14. 45-CF0149 DEEC Circuit Card Undergoing Zestron Cleaning Process

Figure 15. Vigon A-200 Used in the Cleaning Process

Figure 16. DEEC Circuit Cards in Drying Oven

Figure 17. Oven Used for Drying DEEC Circuit Cards

Figure 18. Oven Used for Drying DEEC Circuit Cards

Figure 19. 45-CF0152 DEEC Circuit Card Shipping Box as Received

Figure 20. 45-CF0152 DEEC Circuit Card Shipping Box as Received

Figure 21. 45-CF0152 DEEC Circuit Card Packaging Materials as Received

Figure 22. 45-CF0152 DEEC Circuit Card Packaging Materials as Received

Figure 23. 45-CF0152 DEEC Circuit Card Bubble Wrap Packaging as Received

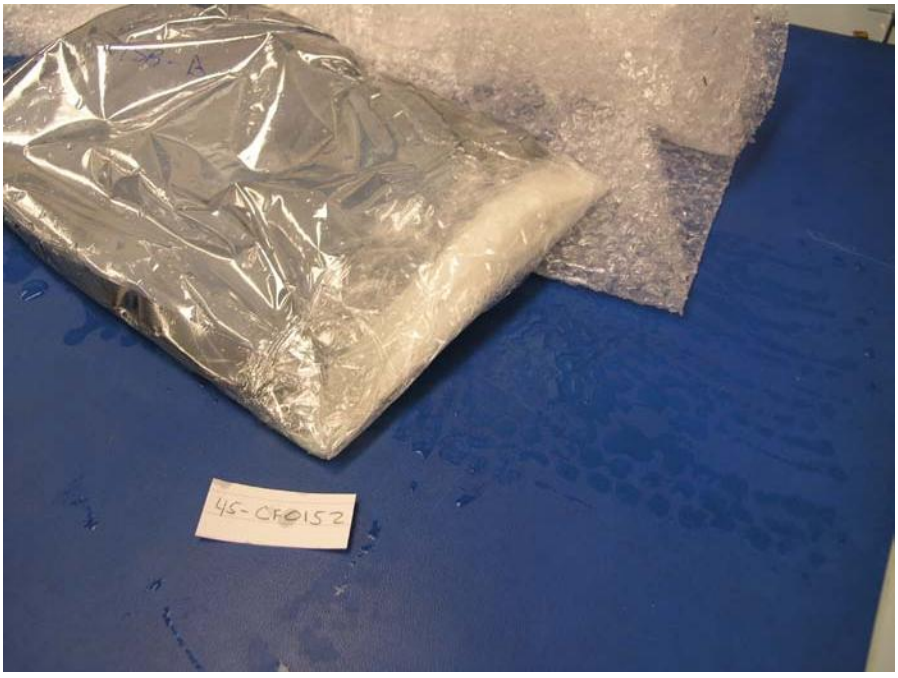


Figure 24. 45-CF0152 DEEC Circuit Card Packaging as Received

Figure 25. 45-CF0152 DEEC Circuit Card Packaging as Received

Figure 26. 45-CF0152 DEEC Circuit Card

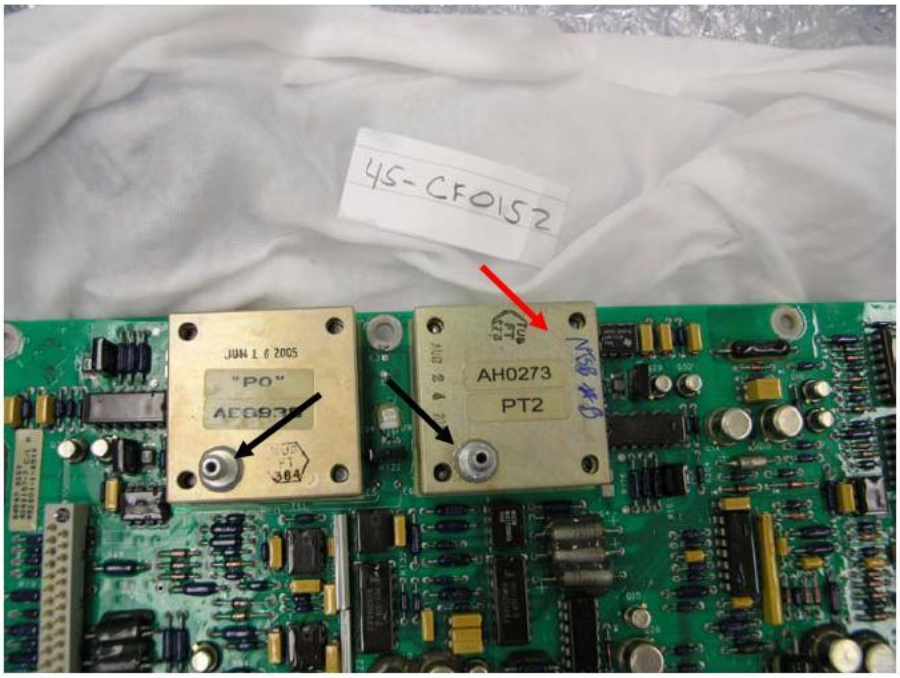


Figure 27. 45-CF0152 DEEC Circuit Card

Figure 28. 45-CF0152 DEEC Circuit Card ID Plate

Figure 29. 45-CF0152 DEEC Data Plate (Photo Supplied by the NTSB)

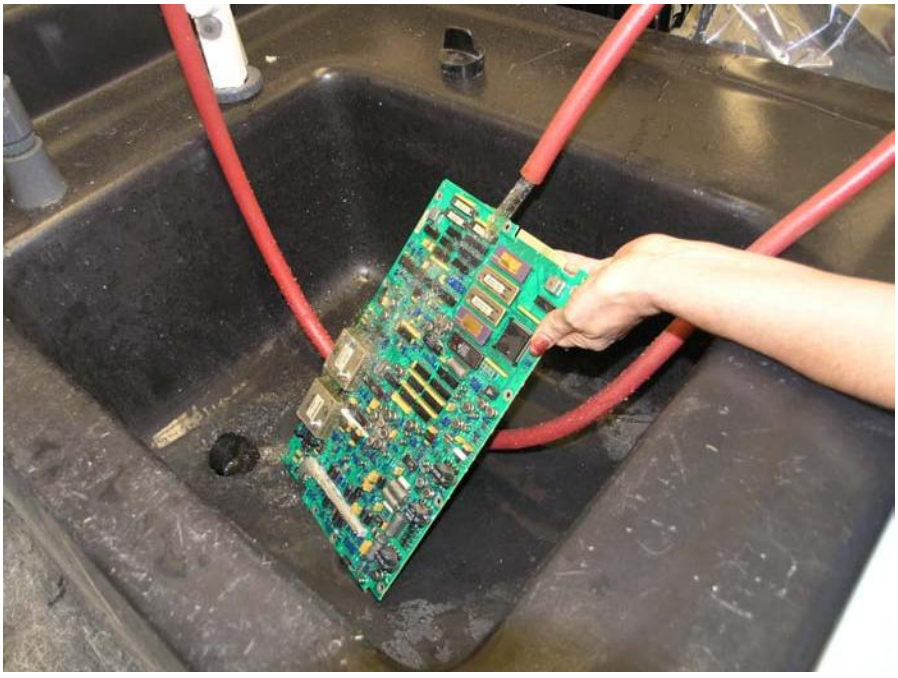


Figure 30. 45-CF0152 DEEC Circuit Card Being Rinsed with De-Ionized Fresh Water

Figure 31. N1 DEEC Transportation Container as Received in Tucson

Figure 32. N1 DEEC Circuit Cards as Received in Tucson

Figure 33. N1 DEEC Circuit Cards as Received in Tucson

Figure 34. CF0149 (Left Engine) N1 DEEC Circuit Card and NVM Chip

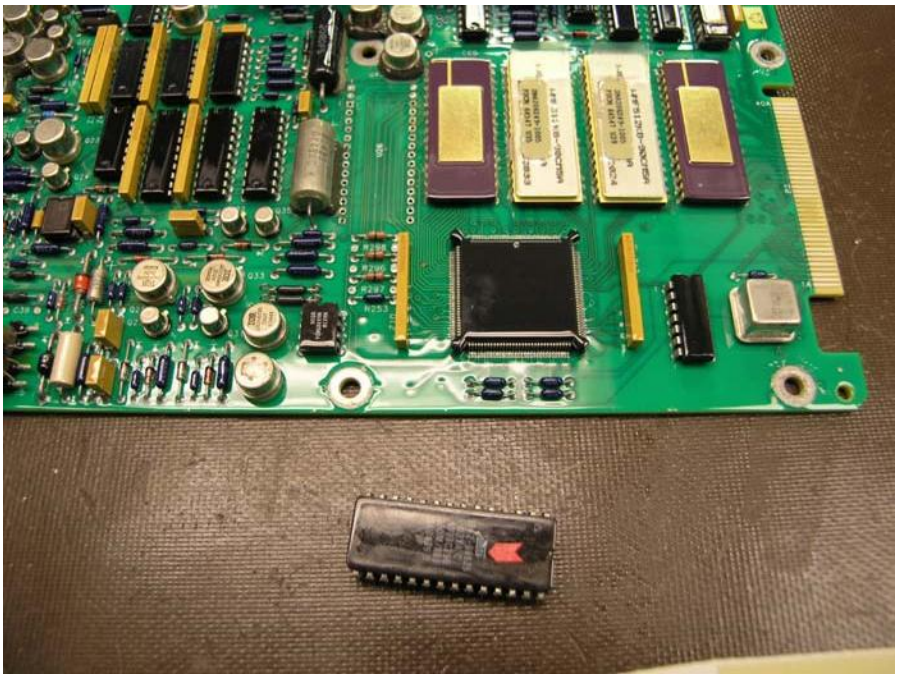


Figure 35. CF0149 (Left Engine) N1 DEEC NVM Chip After Removal

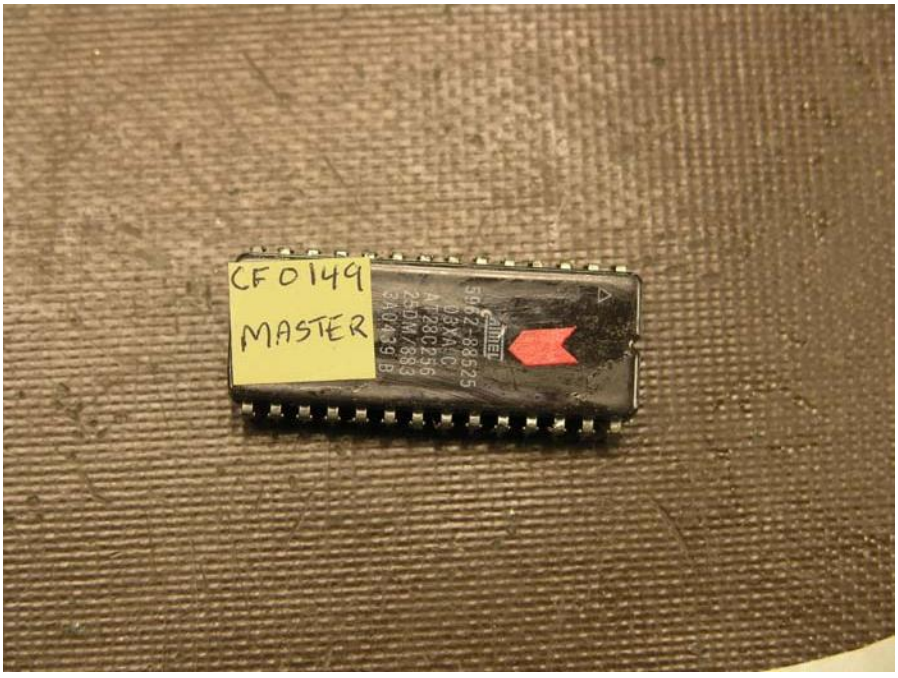


Figure 36. CF0149 NVM Chip Labeled After Removal From Circuit Card

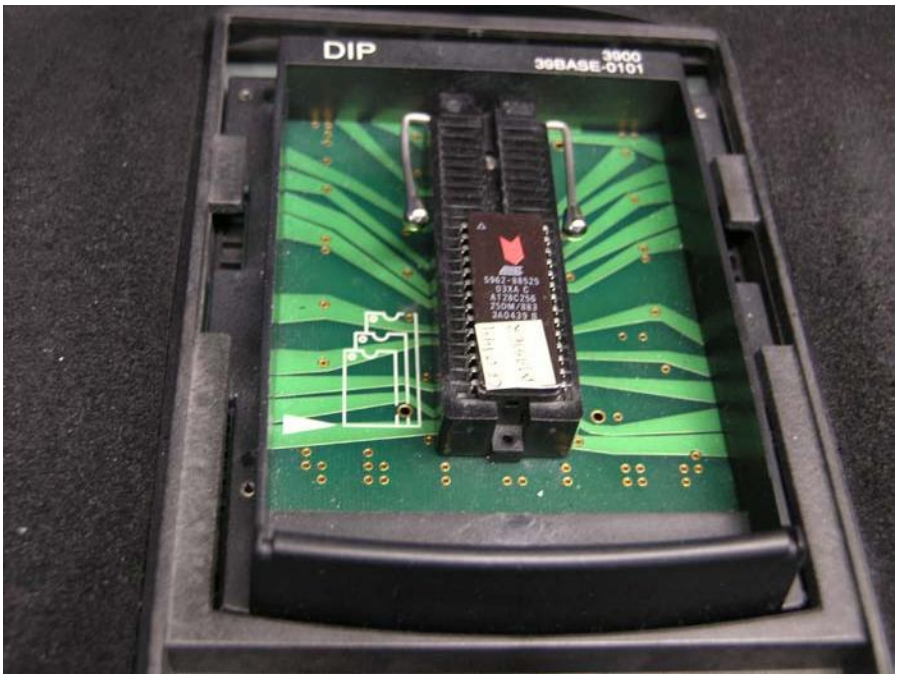


Figure 37. NVM Chip Installed in Data IO Programmer for Copy

Figure 38. NVM Chip Installed in Data IO Programmer for Copy

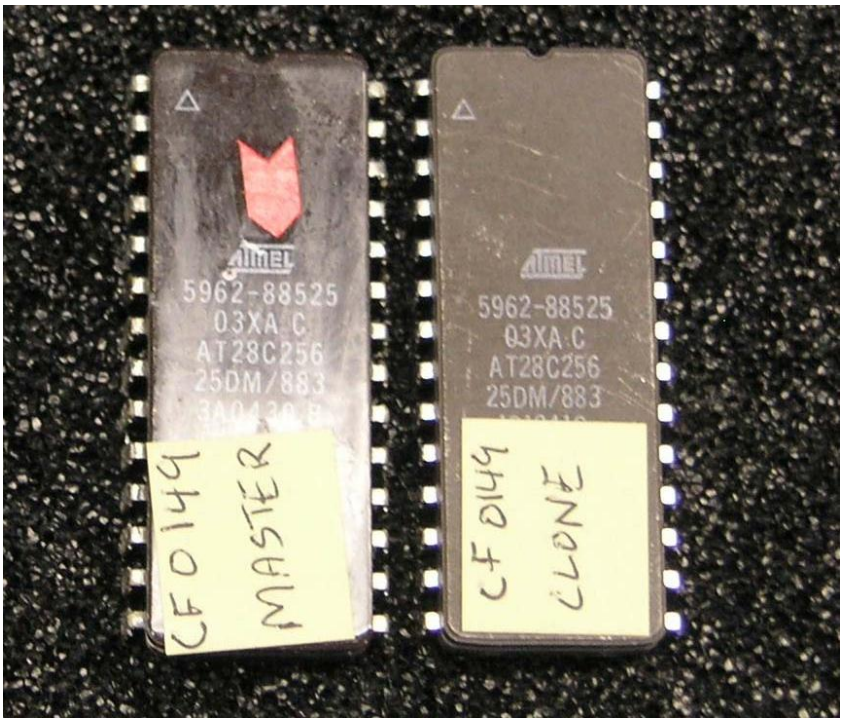


Figure 39. NVM Chip Data CF0149 Copied to a Clone IC

Figure 40. CF0149 Clone NVM Chip Installed into Slave N1 DEEC

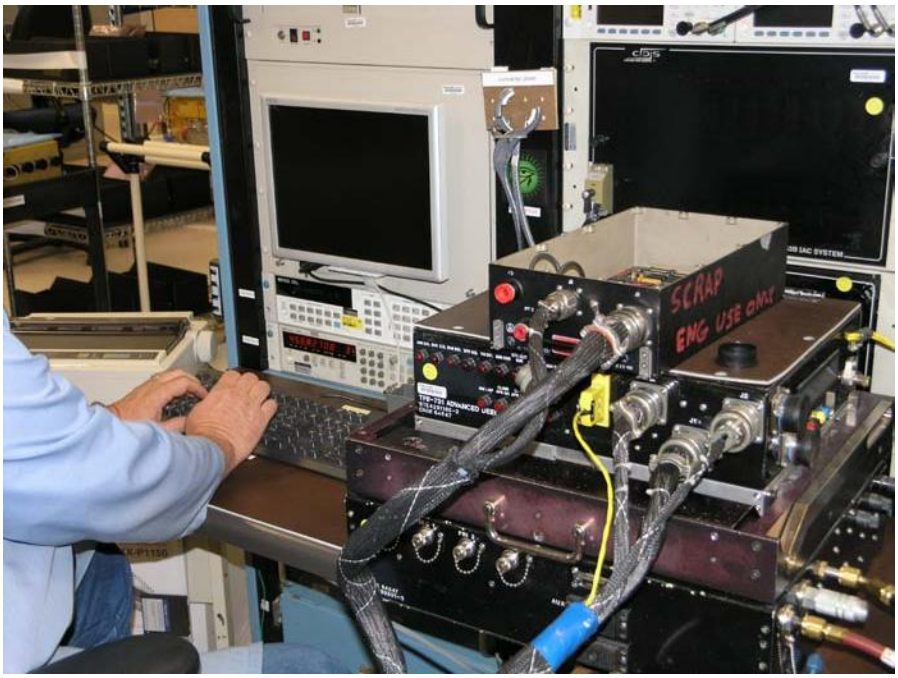


Figure 41. Slave N1 DEEC Being Downloaded

Figure 42. Floppy Disks Containing Downloaded Data

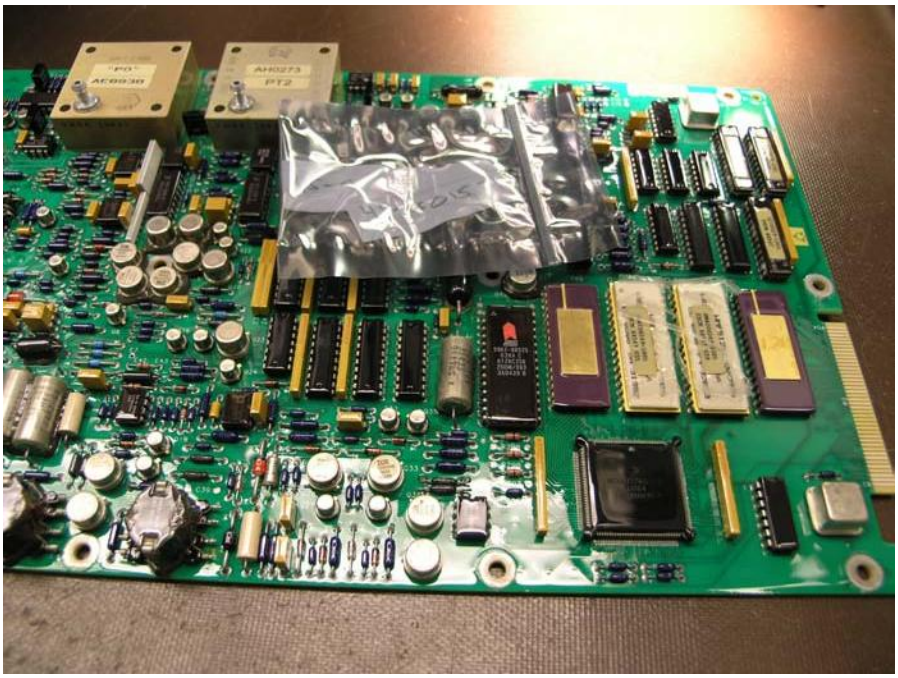


Figure 43. CF0152 (Right Engine) N1 DEEC Circuit Card and NVM Chip

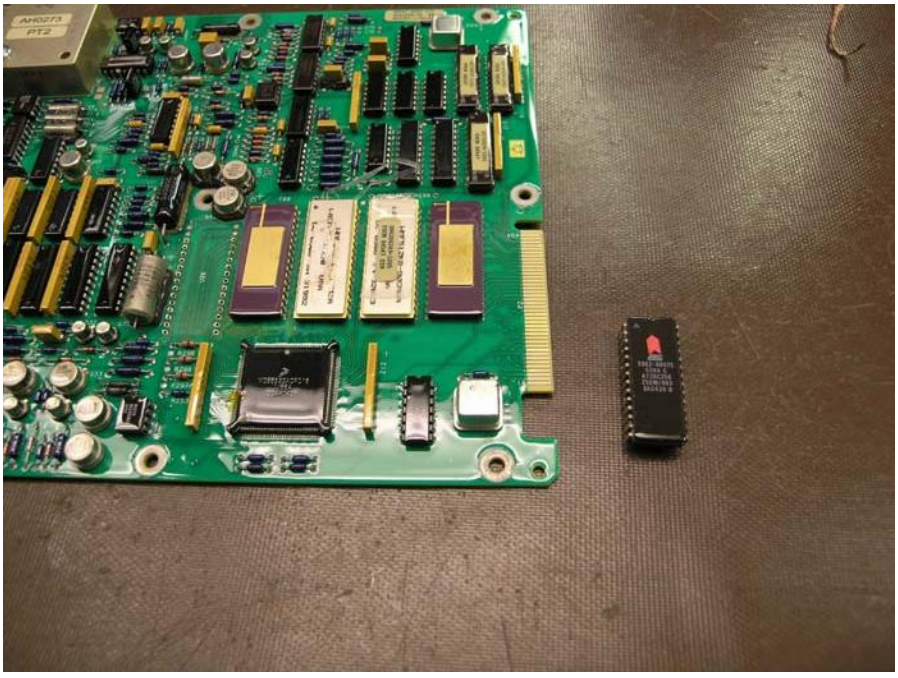


Figure 44. CF0152 (Right Engine) N1 DEEC NVM Chip After Removal

Figure 45. CF0152 NVM Chip Labeled After Removal From Circuit Card

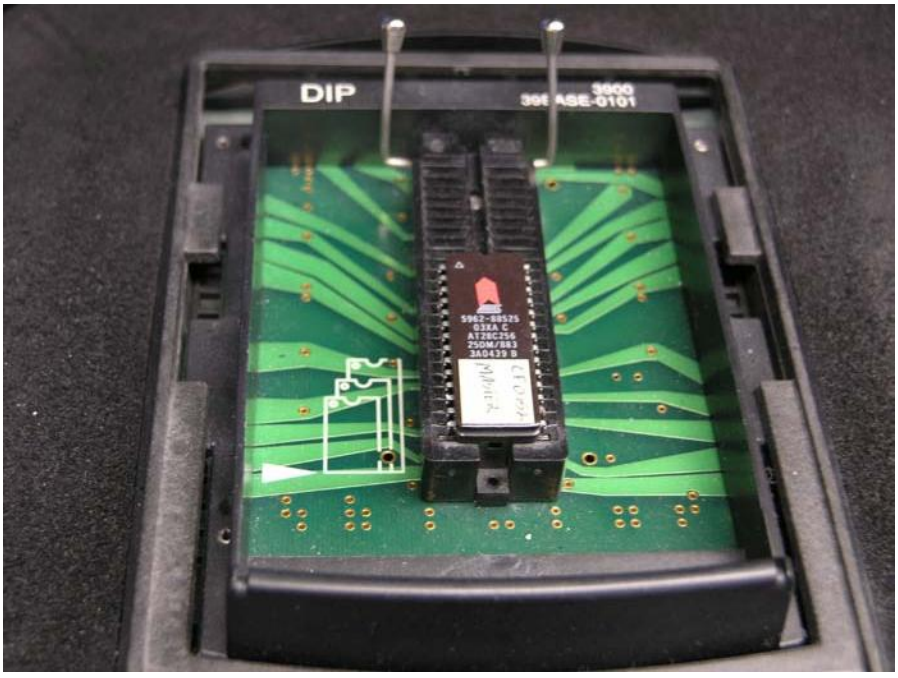


Figure 46. CF0152 MASTER NVM Chip Installed in Data IO Programmer

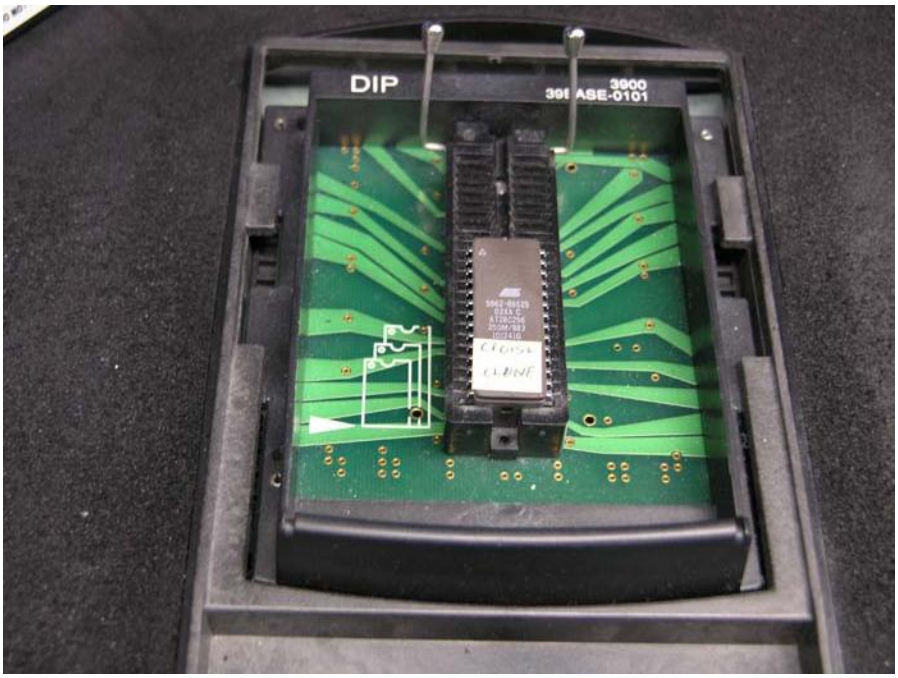


Figure 47. CF0152 Data Copied to Clone IC

Appendix A
N1 DEEC Incident Recorder Scan Frequencies
(1 page)

Data buffer	*Data Record Frequency*	*Total Accumulated Time*
(1)	Every 1 second	Last 8 minutes 32 seconds
(2)	Every 2 seconds	to 17 minutes 4 seconds
(3)	Every 4 seconds	to 25 minutes 32 seconds
(4)	Every 8 seconds	to 34 minutes 8 seconds
(5)	Every 16 seconds	to 42 minutes 40 seconds
(6)	Every 32 seconds	to 51 minutes 12 seconds
(7)	Every 64 seconds	to 59 minutes 44 seconds
(8)	Every 128 seconds	to 68 minutes 16 seconds
(9)	Every 256 seconds	to 76 minutes 48 seconds
(10)	Every 512 seconds	to 85 minutes 20 seconds

Appendix B
Incident Recorder Parameter Bin Resolution
(2 pages)

Parameter	Meaning of Value
PLA	No valid data PLA < 26 26 ≤ PLA < 40 40 ≤ PLA < 60 60 ≤ PLA < 95 95 ≤ PLA < 105 105 ≤ PLA < 117 PLA ≥ 117
N1_PCT	N1 signal failed N1_PCT < 20% 20% ≤ N1_PCT < 30% 30% ≤ N1_PCT < 40% 40% ≤ N1_PCT < 50% 50% ≤ N1_PCT < 55% 55% ≤ N1_PCT < 60% 60% ≤ N1_PCT < 65% 65% ≤ N1_PCT < 70% 70% ≤ N1_PCT < 75% 75% ≤ N1_PCT < 80% 80% ≤ N1_PCT < 85% 85% ≤ N1_PCT < 90% 90% ≤ N1_PCT < 95% 95% ≤ N1_PCT < 101% N1_PCT ≥ 101%
N2_PCT	N2 signal failed N2_PCT < 50% 50% ≤ N2_PCT < 60% 60% ≤ N2_PCT < 70% 70% ≤ N2_PCT < 80% 80% ≤ N2_PCT < 90% 90% ≤ N2_PCT < 101.5% N2_PCT ≥ 101.5%
ITT	ITT signal failed ITT < 400 400 ≤ ITT < (ITT_MAX - 300) (ITT_MAX - 300) ≤ ITT < (ITT_MAX - 200) (ITT_MAX - 200) ≤ ITT < (ITT_MAX - 100) (ITT_MAX - 100) ≤ ITT < (ITT_MAX - 50) (ITT_MAX - 50) ≤ ITT < (ITT_MAX + 10) ITT ≥ (ITT_MAX + 10)

Parameter	Meaning of Value
COMPUTER MODE	MANUAL_MODE = 1 MANUAL_MODE = 0 and ABS(N1_ERR) < =100 rpm MANUAL_MODE = 0 and N1_ERR > +100 rpm MANUAL_MODE = 0 and N1_ERR < -100 rpm
WOW	WOW = 1 (ground operation) WOW = 0 (flight operation)
MACH	< 0.15 MACH 0.15 ≤ MACH < 0.3 0.3 ≤ MACH < 0.5 MACH ≥ 0.5
ALTITUDE	ALT < 2000 ft 2000 ≤ ALT < 4000 ft 4000 ≤ ALT < 6000 ft 6000 ≤ ALT < 9000 ft 9000 ≤ ALT < 12000 ft 12000 ≤ ALT < 15000 ft 15000 ≤ ALT < 25000 ft ALT ≥ 25000 ft
TR DEPLOYED	TR_DEPLOYED = 0 TR_DEPLOYED = 1

Appendix C

Incident Recorder Raw Data, Left Engine, Full Download,
1 through 5120 Seconds

(22 pages)

AirEvac ← Owner/Operator
Learjet 35A ← Make/Model
XA-USD ← Registration Number
Ft Lauderdale, FL ← Location
November 19, 2013 ← Date

P74717 Eng 1: Left Engine S/N

Time Step (sec)	Time (sec)	Time (Min)	RAW Data	N1 (rpm)	N2 (rpm)	ITT ©	WOW	Mach	PLA (deg)	Altitude (ft)	Thrust Reversor	Computer Mode	Pointer
0	1	0.017	a420d765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	deployed	n1error > 100	0
1	2	0.033	a420d765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	deployed	n1error > 100	0
1	3	0.050	c721b365	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	0
1	4	0.067	c321b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	0
1	5	0.083	c321b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	0
1	6	0.100	e301b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	7	0.117	e301b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	8	0.133	c321b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	0
1	9	0.150	c321b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	0
1	10	0.167	c321b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	0
1	11	0.183	c321b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	0
1	12	0.200	c321b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	0
1	13	0.217	c321b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	0
1	14	0.233	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	15	0.250	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	16	0.267	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	17	0.283	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	18	0.300	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
[illegible]	[illegible]	0.317	[illegible]	[illegible]≤N1<90	[illegible]	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	20	0.333	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	21	0.350	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	22	0.367	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	23	0.383	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	24	0.400	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	25	0.417	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	26	0.433	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	27	0.450	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	28	0.467	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	29	0.483	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	30	0.500	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	31	0.517	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	32	0.533	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	33	0.550	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	34	0.567	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	35	0.583	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	36	0.600	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	37	0.617	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	38	0.633	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	39	0.650	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0

1	40	0.667	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	41	0.683	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	42	0.700	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	43	0.717	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	44	0.733	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	45	0.750	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	46	0.767	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	47	0.783	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	48	0.800	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	49	0.817	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	50	0.833	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	51	0.850	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	52	0.867	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	53	0.883	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	54	0.900	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	55	0.917	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	56	0.933	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	57	0.950	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	58	0.967	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	59	0.983	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	60	1.000	55013b6f	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	0
1	61	1.017	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	62	1.033	55013b6f	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	0
1	63	1.050	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	64	1.067	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	65	1.083	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	66	1.100	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	67	1.117	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	68	1.133	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	69	1.150	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	70	1.167	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	71	1.183	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	72	1.200	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	73	1.217	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	74	1.233	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	75	1.250	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	76	1.267	55013b6f	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	0
1	77	1.283	55013b6f	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	0
1	78	1.300	55013b6f	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	0
1	79	1.317	55013b6f	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	0
1	80	1.333	56013b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	81	1.350	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	82	1.367	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	83	1.383	5901376f	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	0
1	84	1.400	5901376f	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	0
1	85	1.417	5901376f	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	0
1	86	1.433	3a01576e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	n1error > 100	0
1	87	1.450	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0

1	88	1.467	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	89	1.483	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	90	1.500	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	91	1.517	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	92	1.533	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	93	1.550	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	94	1.567	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	95	1.583	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	96	1.600	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	97	1.617	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	98	1.633	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	99	1.650	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	100	1.667	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	101	1.683	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	102	1.700	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	103	1.717	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	104	1.733	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	105	1.750	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	106	1.767	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	107	1.783	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	108	1.800	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	109	1.817	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	110	1.833	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	111	1.850	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	112	1.867	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	113	1.883	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	114	1.900	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	115	1.917	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	116	1.933	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	117	1.950	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	118	1.967	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	119	1.983	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	120	2.000	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	121	2.017	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	122	2.033	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	123	2.050	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	124	2.067	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	125	2.083	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	126	2.100	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	127	2.117	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	128	2.133	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	129	2.150	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	130	2.167	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	131	2.183	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	132	2.200	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	133	2.217	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	134	2.233	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	135	2.250	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0

1	136	2.267	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	137	2.283	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	138	2.300	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	139	2.317	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	140	2.333	5a01376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	141	2.350	5e01336e	90≤N1<95	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	0
1	142	2.367	1e01736e	90≤N1<95	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	n1error < -100	0
1	143	2.383	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	144	2.400	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	145	2.417	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	146	2.433	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	147	2.450	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	148	2.467	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	149	2.483	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	150	2.500	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	151	2.517	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	152	2.533	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	153	2.550	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	154	2.567	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	155	2.583	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	156	2.600	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	157	2.617	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	158	2.633	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	159	2.650	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	160	2.667	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	161	2.683	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	162	2.700	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	163	2.717	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	164	2.733	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	165	2.750	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	166	2.767	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	167	2.783	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	168	2.800	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	169	2.817	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	170	2.833	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	171	2.850	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	172	2.867	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	173	2.883	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	174	2.900	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	175	2.917	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	176	2.933	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	177	2.950	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	178	2.967	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	179	2.983	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	180	3.000	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	181	3.017	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	182	3.033	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	183	3.050	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0

1	184	3.067	7001335c	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	185	3.083	6f01335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	186	3.100	6f01335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	187	3.117	6f01335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	188	3.133	6f01335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	189	3.150	4f01535d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	n1error > 100	0
1	190	3.167	6f01335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	191	3.183	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	192	3.200	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	193	3.217	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	194	3.233	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	195	3.250	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	196	3.267	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	197	3.283	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	198	3.300	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	199	3.317	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	200	3.333	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	201	3.350	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	202	3.367	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	203	3.383	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	204	3.400	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	205	3.417	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	206	3.433	98011354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	Manual	0
1	207	3.450	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	208	3.467	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	209	3.483	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	210	3.500	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	211	3.517	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	212	3.533	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	213	3.550	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	214	3.567	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	215	3.583	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	216	3.600	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	217	3.617	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	218	3.633	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	219	3.650	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	220	3.667	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	221	3.683	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	222	3.700	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	223	3.717	8f01135d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	Manual	0
1	224	3.733	1000935d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	225	3.750	0c00975d	80≤N1<85	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	226	3.767	1c00974d	70≤N1<75	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	227	3.783	24009745	65≤N1<70	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	228	3.800	24009745	65≤N1<70	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	229	3.817	24009745	65≤N1<70	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	230	3.833	24009745	65≤N1<70	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	231	3.850	24009745	65≤N1<70	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0

1	232	3.867	24009745	65≤N1<70	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	233	3.883	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	234	3.900	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	235	3.917	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	236	3.933	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	237	3.950	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	238	3.967	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	239	3.983	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	240	4.000	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	241	4.017	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	242	4.033	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	243	4.050	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	244	4.067	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	245	4.083	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	246	4.100	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	247	4.117	2c00973d	60≤N1<65	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	248	4.133	24009745	65≤N1<70	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	249	4.150	24009745	65≤N1<70	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	250	4.167	24009745	65≤N1<70	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	251	4.183	24009745	65≤N1<70	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	252	4.200	24009745	65≤N1<70	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	253	4.217	28009345	65≤N1<70	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	254	4.233	2000934d	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	255	4.250	2000934d	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	256	4.267	2000934d	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	257	4.283	2000934d	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	258	4.300	f8209355	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	deployed	Manual	0
1	259	4.317	f8209355	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	deployed	Manual	0
1	260	4.333	18009355	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	Manual	0
1	261	4.350	23017765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	n1error < -100	0
1	262	4.367	23017765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	n1error < -100	0
1	263	4.383	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	264	4.400	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	265	4.417	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	266	4.433	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	267	4.450	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	268	4.467	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	269	4.483	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	270	4.500	63013765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	271	4.517	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	272	4.533	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	273	4.550	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	274	4.567	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	275	4.583	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	276	4.600	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	277	4.617	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	278	4.633	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	279	4.650	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0

1	280	4.667	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	281	4.683	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	282	4.700	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	283	4.717	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	284	4.733	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	285	4.750	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	286	4.767	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	287	4.783	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	288	4.800	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	289	4.817	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	290	4.833	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	291	4.850	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	292	4.867	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	293	4.883	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	294	4.900	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	295	4.917	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	296	4.933	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	297	4.950	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	298	4.967	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	299	4.983	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	300	5.000	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	301	5.017	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	302	5.033	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	303	5.050	5b01376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	304	5.067	db01b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	305	5.083	db01b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	306	5.100	db01b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	307	5.117	db01b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	308	5.133	d701bb6d	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	309	5.150	d800bb6d	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	310	5.167	d800bb6d	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	311	5.183	d800bb6d	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	312	5.200	d800bb6d	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	313	5.217	d800bb6d	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	314	5.233	dc00b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	315	5.250	dc00b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	316	5.267	dc00b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	317	5.283	dc00b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	318	5.300	dc00b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	319	5.317	dc00b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	320	5.333	dc00b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	321	5.350	dc00b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	322	5.367	dc00b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	323	5.383	dc00b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	324	5.400	a000f36d	90≤N1<95	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	n1error < -100	0
1	325	5.417	f000b35d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	0
1	326	5.433	fd00af54	75≤N1<80	90≤N2<101.5	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	327	5.450	7600cebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	n1error > 100	0

1	328	5.467	9e00aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	329	5.483	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	330	5.500	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	331	5.517	9e00aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	332	5.533	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	333	5.550	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	334	5.567	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	335	5.583	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	336	5.600	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	337	5.617	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	338	5.633	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	339	5.650	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	340	5.667	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	341	5.683	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	342	5.700	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	343	5.717	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	344	5.733	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	345	5.750	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	346	5.767	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	347	5.783	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	348	5.800	a200aab4	55≤N1<60	80≤N2<90	400-(mx-300)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	349	5.817	9e00aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	350	5.833	9e00aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	351	5.850	9e00aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	352	5.867	9e00aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	353	5.883	9e00aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	354	5.900	7e00ceb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	n1error > 100	0
1	355	5.917	a600aeac	50≤N1<55	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
1	356	5.933	a700aeab	50≤N1<55	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
1	357	5.950	8f00cea3	40≤N1<50	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	n1error > 100	0
1	358	5.967	1b00ca1b	30≤N1<40	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	n1error > 100	0
1	359	5.983	a400c993	20≤N1<30	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	n1error > 100	0
1	360	6.000	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	361	6.017	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	362	6.033	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	363	6.050	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	364	6.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	365	6.083	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	366	6.100	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	367	6.117	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	368	6.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	369	6.150	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	370	6.167	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	371	6.183	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	372	6.200	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	373	6.217	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	374	6.233	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	375	6.250	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0

1	376	6.267	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	377	6.283	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	378	6.300	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	379	6.317	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	380	6.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	381	6.350	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	382	6.367	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	383	6.383	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	384	6.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	385	6.417	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	386	6.433	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	387	6.450	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	388	6.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	389	6.483	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	390	6.500	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	391	6.517	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	392	6.533	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	393	6.550	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	394	6.567	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	395	6.583	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	396	6.600	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	397	6.617	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	398	6.633	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	399	6.650	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	400	6.667	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	401	6.683	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	402	6.700	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	403	6.717	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	404	6.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	405	6.750	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	406	6.767	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	407	6.783	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	408	6.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	409	6.817	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	410	6.833	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	411	6.850	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	412	6.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	413	6.883	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	414	6.900	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	415	6.917	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	416	6.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	417	6.950	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	418	6.967	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	419	6.983	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	420	7.000	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	421	7.017	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	422	7.033	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	423	7.050	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1

1	424	7.067	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	425	7.083	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	426	7.100	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	427	7.117	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	428	7.133	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	429	7.150	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	430	7.167	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	431	7.183	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	432	7.200	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	433	7.217	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	434	7.233	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	435	7.250	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	436	7.267	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	437	7.283	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	438	7.300	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	439	7.317	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	440	7.333	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	441	7.350	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	442	7.367	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	443	7.383	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	444	7.400	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	445	7.417	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	446	7.433	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	447	7.450	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	448	7.467	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	449	7.483	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	450	7.500	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	451	7.517	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	452	7.533	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	453	7.550	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	454	7.567	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	455	7.583	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	456	7.600	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	457	7.617	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	458	7.633	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	459	7.650	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	460	7.667	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	461	7.683	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	462	7.700	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	463	7.717	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	464	7.733	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	465	7.750	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	466	7.767	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	467	7.783	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	468	7.800	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	469	7.817	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	470	7.833	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	471	7.850	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1

1	472	7.867	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	473	7.883	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	474	7.900	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	475	7.917	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	476	7.933	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	477	7.950	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	478	7.967	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	479	7.983	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	480	8.000	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	481	8.017	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	482	8.033	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	483	8.050	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	484	8.067	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	485	8.083	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	486	8.100	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	487	8.117	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	488	8.133	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	489	8.150	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	490	8.167	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	491	8.183	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	492	8.200	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	493	8.217	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	494	8.233	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	495	8.250	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	496	8.267	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	497	8.283	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	498	8.300	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	499	8.317	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	500	8.333	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	501	8.350	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	502	8.367	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	503	8.383	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	504	8.400	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	505	8.417	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	506	8.433	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	507	8.450	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	508	8.467	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	509	8.483	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	510	8.500	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	511	8.517	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	512	8.533	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	514	8.567	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	516	8.600	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	518	8.633	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	520	8.667	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	522	8.700	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	524	8.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	526	8.767	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0

2	528	8.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	530	8.833	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	532	8.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	534	8.900	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	536	8.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	538	8.967	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	540	9.000	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	542	9.033	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	544	9.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	546	9.100	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	548	9.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	550	9.167	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	552	9.200	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	554	9.233	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	556	9.267	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	558	9.300	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	560	9.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	562	9.367	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	564	9.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	566	9.433	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	568	9.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	570	9.500	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	572	9.533	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	574	9.567	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	576	9.600	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	578	9.633	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	580	9.667	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	582	9.700	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	584	9.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	586	9.767	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	588	9.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	590	9.833	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	592	9.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	594	9.900	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	596	9.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	598	9.967	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	600	10.000	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	602	10.033	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	604	10.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	606	10.100	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	608	10.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	610	10.167	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	612	10.200	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	614	10.233	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	616	10.267	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	618	10.300	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	620	10.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	622	10.367	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0

2	624	10.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	626	10.433	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	628	10.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	630	10.500	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	632	10.533	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	634	10.567	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	636	10.600	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	638	10.633	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	640	10.667	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	642	10.700	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	644	10.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	646	10.767	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	648	10.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	650	10.833	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	652	10.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	654	10.900	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	656	10.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	658	10.967	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	660	11.000	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	662	11.033	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	664	11.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	666	11.100	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	668	11.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	670	11.167	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	672	11.200	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	674	11.233	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	676	11.267	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	678	11.300	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	680	11.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	682	11.367	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	684	11.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	686	11.433	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	688	11.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	690	11.500	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	692	11.533	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	694	11.567	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	696	11.600	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	698	11.633	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	700	11.667	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	702	11.700	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	704	11.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	706	11.767	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	708	11.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	710	11.833	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	712	11.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	714	11.900	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	716	11.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	718	11.967	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0

2	720	12.000	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	722	12.033	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	724	12.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	726	12.100	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	728	12.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	730	12.167	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	732	12.200	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	734	12.233	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	736	12.267	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	738	12.300	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	740	12.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	742	12.367	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	744	12.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	746	12.433	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	748	12.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	750	12.500	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	752	12.533	2600c911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	754	12.567	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	756	12.600	7e00e999	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error < -100	0
2	758	12.633	7d00e99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	n1error < -100	0
2	760	12.667	9d00c99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	n1error > 100	0
2	762	12.700	9d00c99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	n1error > 100	0
2	764	12.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	766	12.767	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	768	12.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	770	12.833	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	772	12.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	774	12.900	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	776	12.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	778	12.967	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	780	13.000	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	782	13.033	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	784	13.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	786	13.100	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	788	13.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	790	13.167	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	792	13.200	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	794	13.233	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	796	13.267	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	798	13.300	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	800	13.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	802	13.367	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	804	13.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	806	13.433	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	808	13.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	810	13.500	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	812	13.533	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	814	13.567	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0

2	816	13.600	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	818	13.633	4200ad11	20≤N1<30	50≤N2<60	(mx-300)-(mx-200)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	820	13.667	4200ad11	20≤N1<30	50≤N2<60	(mx-300)-(mx-200)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	822	13.700	2200cd11	20≤N1<30	50≤N2<60	(mx-300)-(mx-200)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	824	13.733	ab00cc89	N1<20	N2<50	(mx-300)-(mx-200)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	826	13.767	ab00cc89	N1<20	N2<50	(mx-300)-(mx-200)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	828	13.800	ab00cc89	N1<20	N2<50	(mx-300)-(mx-200)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	830	13.833	af00c889	N1<20	N2<50	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	832	13.867	af00c889	N1<20	N2<50	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	834	13.900	af00c889	N1<20	N2<50	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	836	13.933	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	838	13.967	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	840	14.000	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	842	14.033	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	844	14.067	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	846	14.100	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	848	14.133	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	850	14.167	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	852	14.200	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	854	14.233	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	856	14.267	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	858	14.300	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	860	14.333	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	862	14.367	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	864	14.400	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	866	14.433	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	868	14.467	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	870	14.500	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	872	14.533	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	874	14.567	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	876	14.600	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	878	14.633	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	880	14.667	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	882	14.700	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	884	14.733	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	886	14.767	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	888	14.800	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	890	14.833	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	892	14.867	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	894	14.900	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	896	14.933	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	898	14.967	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	900	15.000	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	902	15.033	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	904	15.067	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	906	15.100	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	908	15.133	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	910	15.167	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0

2	912	15.200	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	914	15.233	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	916	15.267	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	918	15.300	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	920	15.333	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	922	15.367	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	924	15.400	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	926	15.433	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	928	15.467	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	930	15.500	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	932	15.533	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	934	15.567	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	936	15.600	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	938	15.633	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	940	15.667	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	942	15.700	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	944	15.733	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	946	15.767	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	948	15.800	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	950	15.833	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	952	15.867	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	954	15.900	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	956	15.933	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	958	15.967	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	960	16.000	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	962	16.033	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	964	16.067	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	966	16.100	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	968	16.133	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	970	16.167	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	972	16.200	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	974	16.233	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	976	16.267	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	978	16.300	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	980	16.333	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	982	16.367	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	984	16.400	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	986	16.433	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	988	16.467	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	990	16.500	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	992	16.533	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	994	16.567	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	996	16.600	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	998	16.633	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	1000	16.667	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	1002	16.700	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	1004	16.733	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	1006	16.767	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1

2	1008	16.800	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	1010	16.833	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	1012	16.867	73808489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	Manual	1
2	1014	16.900	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	1016	16.933	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	1018	16.967	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	1020	17.000	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	1022	17.033	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	1024	17.067	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1028	17.133	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
4	1032	17.200	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
4	1036	17.267	a700c891	20≤N1<30	N2<50	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
4	1040	17.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1044	17.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1048	17.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1052	17.533	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1056	17.600	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1060	17.667	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1064	17.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1068	17.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1072	17.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1076	17.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1080	18.000	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1084	18.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1088	18.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1092	18.200	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1096	18.267	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1100	18.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1104	18.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1108	18.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1112	18.533	4500a912	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1116	18.600	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1120	18.667	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1124	18.733	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1128	18.800	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1132	18.867	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1136	18.933	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1140	19.000	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1144	19.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1148	19.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1152	19.200	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1156	19.267	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1160	19.333	fd00e91a	30≤N1<40	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	n1error < -100	0
4	1164	19.400	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1168	19.467	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1172	19.533	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1176	19.600	2500c912	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	n1error > 100	0
4	1180	19.667	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0

4	1184	19.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1188	19.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1192	19.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1196	19.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1200	20.000	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1204	20.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1208	20.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1212	20.200	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1216	20.267	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1220	20.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1224	20.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1228	20.467	7e00e999	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error < -100	0
4	1232	20.533	f400ea22	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	n1error < -100	0
4	1236	20.600	9f00aeb3	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
4	1240	20.667	9e00aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
4	1244	20.733	9600aebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	0
4	1248	20.800	2700ae2b	50≤N1<55	70≤N2<80	(mx-300)-(mx-200)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
4	1252	20.867	9c00c99b	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	n1error > 100	0
4	1256	20.933	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1260	21.000	9d00c99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	n1error > 100	0
4	1264	21.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1268	21.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1272	21.200	2600c911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
4	1276	21.267	7d00e99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	n1error < -100	0
4	1280	21.333	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1284	21.400	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1288	21.467	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1292	21.533	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1296	21.600	2f00ae23	40≤N1<50	70≤N2<80	(mx-300)-(mx-200)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
4	1300	21.667	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1304	21.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1308	21.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1312	21.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1316	21.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1320	22.000	fe00e919	30≤N1<40	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error < -100	0
4	1324	22.067	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1328	22.133	bd00a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	0
4	1332	22.200	3300aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
4	1336	22.267	1700ce1b	30≤N1<40	70≤N2<80	(mx-300)-(mx-200)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	n1error > 100	0
4	1340	22.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1344	22.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1348	22.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1352	22.533	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1356	22.600	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1360	22.667	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1364	22.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1368	22.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1372	22.867	2600c911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0

4	1376	22.933	7e00e999	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error < -100	0
4	1380	23.000	3300aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
4	1384	23.067	3300aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
4	1388	23.133	3300aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
4	1392	23.200	3300aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
4	1396	23.267	2f00ae23	40≤N1<50	70≤N2<80	(mx-300)-(mx-200)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
4	1400	23.333	9c00c99b	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	n1error > 100	0
4	1404	23.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1408	23.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1412	23.533	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1416	23.600	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1420	23.667	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1424	23.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1428	23.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1432	23.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1436	23.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1440	24.000	7e00e999	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error < -100	0
4	1444	24.067	3300aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
4	1448	24.133	93a0aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	deployed	AM abs(n1error)≤100	1
4	1452	24.200	93a0aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	deployed	AM abs(n1error)≤100	1
4	1456	24.267	92a1aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	0.15≤Mach<0.3	40≤PLA<60	<2000	deployed	AM abs(n1error)≤100	1
4	1460	24.333	1a814a1b	30≤N1<40	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	n1error > 100	1
4	1464	24.400	758169a1	40≤N1<50	60≤N2<70	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	<2000	stowed	n1error < -100	1
4	1468	24.467	95812ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1472	24.533	8d812ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1476	24.600	8d812ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1480	24.667	95812ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1484	24.733	9d812eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1488	24.800	4d816ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	n1error < -100	1
4	1492	24.867	8d812ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1496	24.933	89814aac	50≤N1<55	80≤N2<90	400-(mx-300)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	n1error > 100	1
4	1500	25.000	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1504	25.067	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1508	25.133	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1512	25.200	aa812aab	50≤N1<55	80≤N2<90	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1516	25.267	aa812aab	50≤N1<55	80≤N2<90	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1520	25.333	aa812aab	50≤N1<55	80≤N2<90	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1524	25.400	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1528	25.467	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1532	25.533	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1536	25.600	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
8	1544	25.733	b2012a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
8	1552	25.867	aa012a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
8	1560	26.000	aa012a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
8	1568	26.133	aa012a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
8	1576	26.267	aa012a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
8	1584	26.400	aa012a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
8	1592	26.533	aa012a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0

8	1600	26.667	aa012a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
8	1608	26.800	aa012a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	0
8	1616	26.933	26052aab	50≤N1<55	80≤N2<90	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1624	27.067	19052eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1632	27.200	19052eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1640	27.333	19052eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1648	27.467	26052aab	50≤N1<55	80≤N2<90	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1656	27.600	26052aab	50≤N1<55	80≤N2<90	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1664	27.733	26052aab	50≤N1<55	80≤N2<90	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1672	27.867	a6052a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1680	28.000	11052ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1688	28.133	01052ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1696	28.267	01052ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1704	28.400	74053354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1712	28.533	01052ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1720	28.667	96054a1b	30≤N1<40	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	n1error > 100	0
8	1728	28.800	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1736	28.933	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1744	29.067	c1052911	20≤N1<30	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1752	29.200	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1760	29.333	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1768	29.467	b8062919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1776	29.600	b8062919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1784	29.733	b8062919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1792	29.867	b8062919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1800	30.000	b40a2919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1808	30.133	f40a6999	30≤N1<40	60≤N2<70	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	4000≤Palt<6000	stowed	n1error < -100	0
8	1816	30.267	a90a2a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1824	30.400	a2092a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1832	30.533	a2092a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1840	30.667	15092eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1848	30.800	cd096ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	4000≤Palt<6000	stowed	n1error < -100	0
8	1856	30.933	fd092ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1864	31.067	05092ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1872	31.200	ed094ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	4000≤Palt<6000	stowed	n1error > 100	0
8	1880	31.333	0d092ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1888	31.467	a2092a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1896	31.600	a2092a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1904	31.733	aa092a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1912	31.867	aa092a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1920	32.000	aa092a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1928	32.133	f30a699a	30≤N1<40	60≤N2<70	400-(mx-300)	Air	0.3≤Mach<0.5	7≤PLA<40	4000≤Palt<6000	stowed	n1error < -100	0
8	1936	32.267	a10a2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1944	32.400	0c0a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1952	32.533	0c0a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1960	32.667	0c0a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1968	32.800	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1976	32.933	848a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1

8	1984	33.067	848a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1992	33.200	848a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2000	33.333	040a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	2008	33.467	848a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2016	33.600	848a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2024	33.733	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2032	33.867	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2040	34.000	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2048	34.133	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
16	2064	34.400	0c0a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2080	34.667	0c0a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2096	34.933	fc0a2ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2112	35.200	fc0a2ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2128	35.467	fc0a2ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2144	35.733	180a2ab4	55≤N1<60	80≤N2<90	400-(mx-300)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2160	36.000	180a2ab4	55≤N1<60	80≤N2<90	400-(mx-300)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2176	36.267	0c0a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2192	36.533	0c0a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2208	36.800	a10a2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2224	37.067	a10a2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2240	37.333	a10a2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2256	37.600	9d0e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
16	2272	37.867	080e2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
16	2288	38.133	c00e6ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	6000≤Palt<9000	stowed	n1error < -100	0
16	2304	38.400	080e2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
16	2320	38.667	c80e6ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	6000≤Palt<9000	stowed	n1error < -100	0
16	2336	38.933	9d0e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
16	2352	39.200	9d0e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
16	2368	39.467	9d0e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
16	2384	39.733	9d0e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
16	2400	40.000	9d0e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
16	2416	40.267	9d0e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
16	2432	40.533	150e2ab3	55≤N1<60	80≤N2<90	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
16	2448	40.800	150e2ab3	55≤N1<60	80≤N2<90	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
16	2464	41.067	09122abb	60≤N1<65	80≤N2<90	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	9000≤Palt<12000	stowed	AM abs(n1error)≤100	0
16	2480	41.333	04122ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	9000≤Palt<12000	stowed	AM abs(n1error)≤100	0
16	2496	41.600	8d922eb3	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	40≤PLA<60	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2512	41.867	e2926a22	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	7≤PLA<40	9000≤Palt<12000	stowed	n1error < -100	1
16	2528	42.133	19922a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2544	42.400	74922ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2560	42.667	54924ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	9000≤Palt<12000	stowed	n1error > 100	1
32	2592	43.200	67123354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	9000≤Palt<12000	stowed	AM abs(n1error)≤100	0
32	2624	43.733	6b122f54	75≤N1<80	90≤N2<101.5	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	9000≤Palt<12000	stowed	AM abs(n1error)≤100	0
32	2656	44.267	b0122519	30≤N1<40	50≤N2<60	<400	Air	0.3≤Mach<0.5	PLA<7	9000≤Palt<12000	stowed	AM abs(n1error)≤100	0
32	2688	44.800	eb176599	30≤N1<40	60≤N2<70	<400	Air	Mach≥0.5	PLA<7	12000≤Palt<15000	stowed	n1error < -100	0
32	2720	45.333	1f1729a1	40≤N1<50	60≤N2<70	400-(mx-300)	Air	Mach≥0.5	PLA<7	12000≤Palt<15000	stowed	AM abs(n1error)≤100	0
32	2752	45.867	921b2a29	50≤N1<55	70≤N2<80	400-(mx-300)	Air	Mach≥0.5	PLA<7	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0
32	2784	46.400	fe1b2eb9	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	PLA<7	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0

32	2816	46.933	fe1b2eb9	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	PLA<7	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0
32	2848	47.467	e41b2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0
32	2880	48.000	e41b2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0
32	2912	48.533	ec1b2ecb	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0
32	2944	49.067	e01f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	0
32	2976	49.600	e01f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	0
32	3008	50.133	e01f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	0
32	3040	50.667	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
32	3072	51.200	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
64	3136	52.267	e01f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	0
64	3200	53.333	e01f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	0
64	3264	54.400	e01f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	0
64	3328	55.467	d41f32db	80≤N1<85	80≤N2<90	(mx-200)-(mx-100)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	0
64	3392	56.533	d41f32db	80≤N1<85	80≤N2<90	(mx-200)-(mx-100)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	0
64	3456	57.600	4a1f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	0
64	3520	58.667	4a1f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	0
64	3584	59.733	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
128	3712	61.867	4a1f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	0
128	3840	64.000	4a1f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	0
128	3968	66.133	4a1f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	0
128	4096	68.267	4a1f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	0
256	4352	72.533	4a1f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	0
256	4608	76.800	4a1f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	0
512	5120	85.333	421f336c	90≤N1<95	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	0

Appendix D

Incident Recorder Raw Data, Right Engine, Full Download, 1 through 5120 Seconds

(22 pages)

AirEvac ← Owner/Operator
Learjet 35A ← Make/Model
XA-USD ← Registration Number
Ft Lauderdale, FL ← Location
November 19, 2013 ← Date

P74715 Eng 2: Right Engine S/N

Time Step (sec)	Time (sec)	Time (Min)	RAW Data	N1 (rpm)	N2 (rpm)	ITT ©	WOW	Mach	PLA (deg)	Altitude (ft)	Thrust Reversor	Computer Mode	Pointer
0	1	0.017	43a1b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	1
1	2	0.033	43a1b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	1
1	3	0.050	43a1b765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	deployed	AM abs(n1error)≤100	1
1	4	0.067	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	5	0.083	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	6	0.100	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	7	0.117	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	8	0.133	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	9	0.150	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	10	0.167	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	11	0.183	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	12	0.200	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	13	0.217	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	14	0.233	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	15	0.250	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	16	0.267	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	17	0.283	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	18	0.300	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
[illegible]	[illegible]	0.317	e3813765	85≤N1<90	[illegible]	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	20	0.333	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	21	0.350	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	22	0.367	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	23	0.383	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	24	0.400	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	25	0.417	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	26	0.433	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	27	0.450	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	28	0.467	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	29	0.483	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	30	0.500	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	31	0.517	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	32	0.533	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	33	0.550	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	34	0.567	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	35	0.583	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	36	0.600	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	37	0.617	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	38	0.633	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	39	0.650	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1

1	40	0.667	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	41	0.683	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	42	0.700	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	43	0.717	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	44	0.733	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	45	0.750	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	46	0.767	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	47	0.783	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	48	0.800	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	49	0.817	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	50	0.833	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	51	0.850	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	52	0.867	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	53	0.883	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	54	0.900	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	55	0.917	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	56	0.933	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	57	0.950	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	58	0.967	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	59	0.983	d7813b6d	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	60	1.000	d5813b6f	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	1
1	61	1.017	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	62	1.033	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	63	1.050	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	64	1.067	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	65	1.083	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	66	1.100	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	67	1.117	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	68	1.133	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	69	1.150	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	70	1.167	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	71	1.183	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	72	1.200	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	73	1.217	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	74	1.233	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	75	1.250	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	76	1.267	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	77	1.283	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	78	1.300	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	79	1.317	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	80	1.333	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	81	1.350	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	82	1.367	d6813b6e	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	83	1.383	d5813b6f	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	1
1	84	1.400	d5813b6f	90≤N1<95	90≤N2<101.5	(mx-50)-(mx+10)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	1
1	85	1.417	d981376f	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	PLA>117	<2000	stowed	AM abs(n1error)≤100	1
1	86	1.433	e2813766	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	87	1.450	e2813766	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1

1	88	1.467	e2813766	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	89	1.483	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	90	1.500	e2813766	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	91	1.517	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	92	1.533	e2813766	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	93	1.550	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	94	1.567	e2813766	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	95	1.583	e2813766	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	96	1.600	db81376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	97	1.617	e2813766	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	98	1.633	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	99	1.650	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	100	1.667	e2813766	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	101	1.683	db81376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	102	1.700	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	103	1.717	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	104	1.733	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	105	1.750	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	106	1.767	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	107	1.783	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	108	1.800	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	109	1.817	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	110	1.833	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	111	1.850	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	112	1.867	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	113	1.883	db81376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	114	1.900	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	115	1.917	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	116	1.933	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	117	1.950	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	118	1.967	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	119	1.983	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	120	2.000	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	121	2.017	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	122	2.033	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	123	2.050	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	124	2.067	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	125	2.083	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	126	2.100	db81376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	127	2.117	db81376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	128	2.133	db81376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	129	2.150	db81376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	130	2.167	db81376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	131	2.183	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	132	2.200	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	133	2.217	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	134	2.233	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	135	2.250	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1

1	136	2.267	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	137	2.283	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	138	2.300	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	139	2.317	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	140	2.333	da81376e	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	105≤PLA<117	<2000	stowed	AM abs(n1error)≤100	1
1	141	2.350	db81376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	142	2.367	a7817365	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	n1error < -100	1
1	143	2.383	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	144	2.400	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	145	2.417	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	146	2.433	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	147	2.450	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	148	2.467	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	149	2.483	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	150	2.500	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	151	2.517	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	152	2.533	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	153	2.550	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	154	2.567	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	155	2.583	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	156	2.600	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	157	2.617	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	158	2.633	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	159	2.650	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	160	2.667	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	161	2.683	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	162	2.700	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	163	2.717	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	164	2.733	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	165	2.750	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	166	2.767	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	167	2.783	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	168	2.800	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	169	2.817	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	170	2.833	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	171	2.850	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	172	2.867	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	173	2.883	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	174	2.900	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	175	2.917	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	176	2.933	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	177	2.950	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	178	2.967	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	179	2.983	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	180	3.000	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	181	3.017	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	182	3.033	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	183	3.050	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1

1	184	3.067	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	185	3.083	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	186	3.100	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	187	3.117	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	188	3.133	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	189	3.150	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	190	3.167	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	191	3.183	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	192	3.200	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	193	3.217	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	194	3.233	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	195	3.250	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	196	3.267	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	197	3.283	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	198	3.300	d8815354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	n1error > 100	1
1	199	3.317	818132cc	70≤N1<75	80≤N2<90	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	200	3.333	818132cc	70≤N1<75	80≤N2<90	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	201	3.350	818132cc	70≤N1<75	80≤N2<90	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	202	3.367	818132cc	70≤N1<75	80≤N2<90	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	203	3.383	818132cc	70≤N1<75	80≤N2<90	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	204	3.400	0081334c	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	205	3.417	818132cc	70≤N1<75	80≤N2<90	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	206	3.433	0081334c	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	207	3.450	0081334c	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	208	3.467	0081334c	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	209	3.483	0081334c	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	210	3.500	818132cc	70≤N1<75	80≤N2<90	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	211	3.517	0081334c	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	212	3.533	818132cc	70≤N1<75	80≤N2<90	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	213	3.550	0081334c	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	214	3.567	0081334c	70≤N1<75	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	215	3.583	398172d4	75≤N1<80	80≤N2<90	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	n1error < -100	1
1	216	3.600	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	217	3.617	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	218	3.633	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	219	3.650	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	220	3.667	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	221	3.683	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	222	3.700	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	223	3.717	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	224	3.733	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	225	3.750	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	226	3.767	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	227	3.783	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	228	3.800	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	229	3.817	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	230	3.833	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	231	3.850	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1

1	232	3.867	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	233	3.883	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	234	3.900	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	235	3.917	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	236	3.933	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	237	3.950	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	238	3.967	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	239	3.983	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	240	4.000	eb85335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
1	241	4.017	eb85335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
1	242	4.033	eb85335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
1	243	4.050	eb85335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
1	244	4.067	eb85335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
1	245	4.083	eb85335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
1	246	4.100	eb85335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
1	247	4.117	eb85335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
1	248	4.133	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	249	4.150	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	250	4.167	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	251	4.183	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	252	4.200	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	253	4.217	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	254	4.233	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	255	4.250	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	256	4.267	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	257	4.283	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	258	4.300	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	259	4.317	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	260	4.333	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	261	4.350	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	262	4.367	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	263	4.383	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	264	4.400	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	265	4.417	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	266	4.433	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	267	4.450	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	268	4.467	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	269	4.483	ef81335d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	270	4.500	eb81375d	80≤N1<85	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	271	4.517	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	272	4.533	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	273	4.550	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	274	4.567	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	275	4.583	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	276	4.600	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	277	4.617	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	278	4.633	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	279	4.650	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1

1	280	4.667	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	281	4.683	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	282	4.700	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	283	4.717	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	284	4.733	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	285	4.750	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	286	4.767	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	287	4.783	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	288	4.800	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	289	4.817	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	290	4.833	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	291	4.850	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	292	4.867	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	293	4.883	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	294	4.900	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	295	4.917	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	296	4.933	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	297	4.950	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	298	4.967	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	299	4.983	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	300	5.000	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	301	5.017	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	302	5.033	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	303	5.050	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	304	5.067	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	305	5.083	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	306	5.100	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	307	5.117	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	308	5.133	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	309	5.150	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	310	5.167	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	311	5.183	e3813765	85≤N1<90	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	312	5.200	db81376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	313	5.217	db81376d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Air	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	314	5.233	5b81b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	315	5.250	5b81b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	316	5.267	5b81b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	317	5.283	5b81b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	318	5.300	5b81b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	0.15≤Mach<0.3	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	319	5.317	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	320	5.333	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	321	5.350	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	322	5.367	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	323	5.383	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	324	5.400	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	325	5.417	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	326	5.433	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	327	5.450	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1

1	328	5.467	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	329	5.483	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	330	5.500	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	331	5.517	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	332	5.533	5c80b76d	90≤N1<95	90≤N2<101.5	(mx-100)-(mx-50)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	AM abs(n1error)≤100	1
1	333	5.550	2880f365	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	n1error < -100	1
1	334	5.567	5080d35d	80≤N1<85	90≤N2<101.5	(mx-200)-(mx-100)	Ground	Mach<0.15	95≤PLA<105	<2000	stowed	n1error > 100	1
1	335	5.583	5d80cf54	75≤N1<80	90≤N2<101.5	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	n1error > 100	1
1	336	5.600	fe80ceb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	n1error > 100	1
1	337	5.617	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	338	5.633	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	339	5.650	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	340	5.667	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	341	5.683	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	342	5.700	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	343	5.717	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	344	5.733	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	345	5.750	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	346	5.767	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	347	5.783	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	348	5.800	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	349	5.817	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	350	5.833	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	351	5.850	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	352	5.867	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	353	5.883	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	354	5.900	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	355	5.917	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	356	5.933	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	357	5.950	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	358	5.967	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	359	5.983	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	360	6.000	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	361	6.017	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	362	6.033	1e80aeb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	363	6.050	fe80ceb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	n1error > 100	1
1	364	6.067	2680aeac	50≤N1<55	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
1	365	6.083	2780aeab	50≤N1<55	80≤N2<90	(mx-300)-(mx-200)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
1	366	6.100	af80ae23	40≤N1<50	70≤N2<80	(mx-300)-(mx-200)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
1	367	6.117	9780ce1b	30≤N1<40	70≤N2<80	(mx-300)-(mx-200)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	n1error > 100	1
1	368	6.133	1c80c99b	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	stowed	n1error > 100	1
1	369	6.150	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	370	6.167	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	371	6.183	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	372	6.200	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	373	6.217	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	374	6.233	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	375	6.250	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1

1	376	6.267	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	377	6.283	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	378	6.300	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	379	6.317	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	380	6.333	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	381	6.350	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	382	6.367	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	383	6.383	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	384	6.400	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	385	6.417	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	386	6.433	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	387	6.450	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	388	6.467	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	389	6.483	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	390	6.500	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	391	6.517	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	392	6.533	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	393	6.550	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	394	6.567	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	395	6.583	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	396	6.600	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	397	6.617	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	398	6.633	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	399	6.650	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	400	6.667	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	401	6.683	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	402	6.700	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	403	6.717	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	404	6.733	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	405	6.750	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	406	6.767	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	407	6.783	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	408	6.800	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
1	409	6.817	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	410	6.833	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	411	6.850	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	412	6.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	413	6.883	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	414	6.900	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	415	6.917	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	416	6.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	417	6.950	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	418	6.967	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	419	6.983	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	420	7.000	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	421	7.017	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	422	7.033	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	423	7.050	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0

1	424	7.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	425	7.083	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	426	7.100	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	427	7.117	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	428	7.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	429	7.150	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	430	7.167	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	431	7.183	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	432	7.200	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	433	7.217	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	434	7.233	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	435	7.250	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	436	7.267	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	437	7.283	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	438	7.300	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	439	7.317	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	440	7.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	441	7.350	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	442	7.367	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	443	7.383	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	444	7.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	445	7.417	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	446	7.433	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	447	7.450	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	448	7.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	449	7.483	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	450	7.500	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	451	7.517	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	452	7.533	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	453	7.550	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	454	7.567	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	455	7.583	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	456	7.600	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	457	7.617	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	458	7.633	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	459	7.650	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	460	7.667	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	461	7.683	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	462	7.700	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	463	7.717	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	464	7.733	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	465	7.750	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	466	7.767	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	467	7.783	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	468	7.800	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	469	7.817	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	470	7.833	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	471	7.850	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0

1	472	7.867	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	473	7.883	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	474	7.900	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	475	7.917	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	476	7.933	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	477	7.950	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	478	7.967	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	479	7.983	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	480	8.000	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	481	8.017	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	482	8.033	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	483	8.050	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	484	8.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	485	8.083	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	486	8.100	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	487	8.117	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	488	8.133	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	489	8.150	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	490	8.167	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	491	8.183	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	492	8.200	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	493	8.217	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	494	8.233	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	495	8.250	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	496	8.267	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	497	8.283	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	498	8.300	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	499	8.317	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	500	8.333	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	501	8.350	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	502	8.367	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	503	8.383	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	504	8.400	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	505	8.417	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	506	8.433	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	507	8.450	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	508	8.467	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	509	8.483	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	510	8.500	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	511	8.517	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
1	512	8.533	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
2	514	8.567	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	516	8.600	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	518	8.633	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	520	8.667	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	522	8.700	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	524	8.733	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	526	8.767	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1

2	528	8.800	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	530	8.833	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	532	8.867	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	534	8.900	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	536	8.933	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	538	8.967	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	540	9.000	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	542	9.033	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	544	9.067	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	546	9.100	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	548	9.133	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	550	9.167	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	552	9.200	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	554	9.233	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	556	9.267	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	558	9.300	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	560	9.333	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	562	9.367	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	564	9.400	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	566	9.433	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	568	9.467	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	570	9.500	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	572	9.533	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	574	9.567	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	576	9.600	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	578	9.633	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	580	9.667	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	582	9.700	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	584	9.733	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	586	9.767	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	588	9.800	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	590	9.833	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	592	9.867	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	594	9.900	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	596	9.933	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	598	9.967	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	600	10.000	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	602	10.033	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	604	10.067	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	606	10.100	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	608	10.133	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	610	10.167	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	612	10.200	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	614	10.233	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	616	10.267	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	618	10.300	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	620	10.333	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	622	10.367	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1

2	624	10.400	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	626	10.433	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	628	10.467	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	630	10.500	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	632	10.533	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	634	10.567	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	636	10.600	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	638	10.633	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	640	10.667	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	642	10.700	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	644	10.733	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	646	10.767	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	648	10.800	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	650	10.833	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	652	10.867	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	654	10.900	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	656	10.933	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	658	10.967	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	660	11.000	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	662	11.033	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	664	11.067	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	666	11.100	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	668	11.133	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	670	11.167	fe80e999	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error < -100	1
2	672	11.200	f580e9a2	40≤N1<50	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	n1error < -100	1
2	674	11.233	1d80c99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	n1error > 100	1
2	676	11.267	3d80a99a	30≤N1<40	60≤N2<70	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	AM abs(n1error)≤100	1
2	678	11.300	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	680	11.333	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	682	11.367	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	684	11.400	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	686	11.433	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	688	11.467	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	690	11.500	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	692	11.533	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	694	11.567	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	696	11.600	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	698	11.633	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	700	11.667	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	702	11.700	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	704	11.733	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	706	11.767	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	708	11.800	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	710	11.833	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	712	11.867	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	714	11.900	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	716	11.933	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	718	11.967	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1

2	720	12.000	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	722	12.033	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	724	12.067	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	726	12.100	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	728	12.133	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	730	12.167	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	732	12.200	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	734	12.233	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	736	12.267	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	738	12.300	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	740	12.333	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	742	12.367	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	744	12.400	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	746	12.433	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	748	12.467	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	750	12.500	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	752	12.533	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	754	12.567	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	756	12.600	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	758	12.633	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	760	12.667	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	762	12.700	c280ad11	20≤N1<30	50≤N2<60	(mx-300)-(mx-200)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	764	12.733	9e80d111	20≤N1<30	50≤N2<60	(mx-200)-(mx-100)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	766	12.767	2380cc91	20≤N1<30	N2<50	(mx-300)-(mx-200)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	768	12.800	2b80cc89	N1<20	N2<50	(mx-300)-(mx-200)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	770	12.833	2b80cc89	N1<20	N2<50	(mx-300)-(mx-200)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	772	12.867	2f80c889	N1<20	N2<50	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	774	12.900	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	776	12.933	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	778	12.967	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	780	13.000	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	782	13.033	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	784	13.067	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	786	13.100	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	788	13.133	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	790	13.167	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	792	13.200	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	794	13.233	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	796	13.267	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	798	13.300	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	800	13.333	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	802	13.367	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	804	13.400	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	806	13.433	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	808	13.467	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	810	13.500	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	812	13.533	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	814	13.567	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1

2	816	13.600	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	818	13.633	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	820	13.667	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	822	13.700	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	824	13.733	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	826	13.767	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
2	828	13.800	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	830	13.833	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	832	13.867	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	834	13.900	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	836	13.933	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	838	13.967	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	840	14.000	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	842	14.033	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	844	14.067	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	846	14.100	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	848	14.133	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	850	14.167	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	852	14.200	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	854	14.233	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	856	14.267	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	858	14.300	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	860	14.333	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	862	14.367	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	864	14.400	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	866	14.433	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	868	14.467	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	870	14.500	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	872	14.533	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	874	14.567	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	876	14.600	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	878	14.633	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	880	14.667	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	882	14.700	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	884	14.733	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	886	14.767	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	888	14.800	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	890	14.833	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	892	14.867	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	894	14.900	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	896	14.933	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	898	14.967	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	900	15.000	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	902	15.033	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	904	15.067	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	906	15.100	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	908	15.133	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	910	15.167	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0

2	912	15.200	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	914	15.233	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	916	15.267	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	918	15.300	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	920	15.333	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	922	15.367	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	924	15.400	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	926	15.433	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	928	15.467	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	930	15.500	b300c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	0
2	932	15.533	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	934	15.567	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	936	15.600	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	938	15.633	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	940	15.667	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	942	15.700	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	944	15.733	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	946	15.767	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	948	15.800	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	950	15.833	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	952	15.867	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	954	15.900	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	956	15.933	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	958	15.967	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	960	16.000	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	962	16.033	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	964	16.067	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	966	16.100	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	968	16.133	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	970	16.167	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	972	16.200	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	974	16.233	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	976	16.267	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	978	16.300	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	980	16.333	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	982	16.367	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	984	16.400	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	986	16.433	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	988	16.467	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	990	16.500	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	992	16.533	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	994	16.567	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	996	16.600	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	998	16.633	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1000	16.667	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1002	16.700	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1004	16.733	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1006	16.767	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1

2	1008	16.800	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1010	16.833	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1012	16.867	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1014	16.900	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1016	16.933	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1018	16.967	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1020	17.000	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1022	17.033	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
2	1024	17.067	4600a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	0
4	1028	17.133	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1032	17.200	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1036	17.267	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1040	17.333	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1044	17.400	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1048	17.467	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1052	17.533	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1056	17.600	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1060	17.667	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1064	17.733	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1068	17.800	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1072	17.867	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1076	17.933	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1080	18.000	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1084	18.067	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1088	18.133	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1092	18.200	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1096	18.267	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1100	18.333	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1104	18.400	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1108	18.467	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1112	18.533	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1116	18.600	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1120	18.667	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1124	18.733	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1128	18.800	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1132	18.867	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1136	18.933	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1140	19.000	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1144	19.067	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1148	19.133	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1152	19.200	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1156	19.267	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1160	19.333	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1164	19.400	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1168	19.467	3380c489	N1<20	N2<50	<400	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1172	19.533	2780c891	20≤N1<30	N2<50	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error > 100	1
4	1176	19.600	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
4	1180	19.667	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1

4	1184	19.733	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
4	1188	19.800	c680a911	20≤N1<30	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	AM abs(n1error)≤100	1
4	1192	19.867	7e80e919	30≤N1<40	50≤N2<60	400-(mx-300)	Ground	Mach<0.15	PLA<7	<2000	stowed	n1error < -100	1
4	1196	19.933	7480ea22	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	7≤PLA<40	<2000	stowed	n1error < -100	1
4	1200	20.000	93a0aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	deployed	AM abs(n1error)≤100	1
4	1204	20.067	93a0aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	Mach<0.15	40≤PLA<60	<2000	deployed	AM abs(n1error)≤100	1
4	1208	20.133	92a1aa23	40≤N1<50	70≤N2<80	400-(mx-300)	Ground	0.15≤Mach<0.3	40≤PLA<60	<2000	deployed	AM abs(n1error)≤100	1
4	1212	20.200	2e812e23	40≤N1<50	70≤N2<80	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1216	20.267	7d816999	30≤N1<40	60≤N2<70	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	<2000	stowed	n1error < -100	1
4	1220	20.333	e7816e2a	50≤N1<55	70≤N2<80	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	7≤PLA<40	<2000	stowed	n1error < -100	1
4	1224	20.400	95812ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1228	20.467	95812ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1232	20.533	95812ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1236	20.600	9d812eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1240	20.667	95812ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1244	20.733	8d812ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1248	20.800	8d812ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	<2000	stowed	AM abs(n1error)≤100	1
4	1252	20.867	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1256	20.933	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1260	21.000	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1264	21.067	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1268	21.133	a6812eab	50≤N1<55	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1272	21.200	a6812eab	50≤N1<55	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1276	21.267	12814a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	n1error > 100	1
4	1280	21.333	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1284	21.400	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1288	21.467	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1292	21.533	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1296	21.600	32812a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1300	21.667	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1304	21.733	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1308	21.800	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1312	21.867	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1316	21.933	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1320	22.000	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1324	22.067	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1328	22.133	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1332	22.200	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1336	22.267	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1340	22.333	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1344	22.400	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1348	22.467	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1352	22.533	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1356	22.600	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1360	22.667	2a812a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	<2000	stowed	AM abs(n1error)≤100	1
4	1364	22.733	26852a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1368	22.800	26852a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1372	22.867	22852e2b	50≤N1<55	70≤N2<80	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1

4	1376	22.933	99852eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1380	23.000	99852eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1384	23.067	99852eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1388	23.133	99852eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1392	23.200	99852eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1396	23.267	26852a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1400	23.333	26852a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1404	23.400	26852a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1408	23.467	26852a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1412	23.533	26852a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1416	23.600	26852a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1420	23.667	26852a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1424	23.733	9a852eb3	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1428	23.800	91852ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1432	23.867	91852ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	1
4	1436	23.933	f1054ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	n1error > 100	0
4	1440	24.000	01052ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1444	24.067	01052ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1448	24.133	01052ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1452	24.200	dd0552cc	70≤N1<75	80≤N2<90	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	n1error > 100	0
4	1456	24.267	74053354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1460	24.333	74053354	75≤N1<80	90≤N2<101.5	(mx-200)-(mx-100)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1464	24.400	68054f44	65≤N1<70	90≤N2<101.5	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	2000≤Palt<4000	stowed	n1error > 100	0
4	1468	24.467	aa052e23	40≤N1<50	70≤N2<80	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	40≤PLA<60	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1472	24.533	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1476	24.600	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1480	24.667	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1484	24.733	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1488	24.800	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1492	24.867	c1052911	20≤N1<30	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1496	24.933	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1500	25.000	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1504	25.067	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1508	25.133	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1512	25.200	b9052919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.15≤Mach<0.3	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1516	25.267	b8062919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1520	25.333	b8062919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1524	25.400	b8062919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1528	25.467	b8062919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1532	25.533	b8062919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
4	1536	25.600	b8062919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	2000≤Palt<4000	stowed	AM abs(n1error)≤100	0
8	1544	25.733	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1552	25.867	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1560	26.000	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1568	26.133	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1576	26.267	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1584	26.400	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1592	26.533	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1

8	1600	26.667	7c8a2ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1608	26.800	7c8a2ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1616	26.933	7c8a2ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1624	27.067	7c8a2ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1632	27.200	7c8a2ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1640	27.333	7c8a2ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1648	27.467	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1656	27.600	948a2eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1664	27.733	948a2eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1672	27.867	948a2eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1680	28.000	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1688	28.133	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1696	28.267	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1704	28.400	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1712	28.533	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1720	28.667	a10a2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1728	28.800	a10a2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1736	28.933	a10a2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1744	29.067	a10a2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
8	1752	29.200	9d0e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
8	1760	29.333	9d0e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
8	1768	29.467	9d0e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
8	1776	29.600	080e2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
8	1784	29.733	080e2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
8	1792	29.867	000e2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
8	1800	30.000	f80e2ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
8	1808	30.133	080e2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
8	1816	30.267	080e2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	6000≤Palt<9000	stowed	AM abs(n1error)≤100	0
8	1824	30.400	348a2919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1832	30.533	348a2919	30≤N1<40	50≤N2<60	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1840	30.667	748a6999	30≤N1<40	60≤N2<70	400-(mx-300)	Air	0.3≤Mach<0.5	PLA<7	4000≤Palt<6000	stowed	n1error < -100	1
8	1848	30.800	218a2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1856	30.933	22892a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1864	31.067	1.69E+37	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
8	1872	31.200	96892eb3	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1880	31.333	3d896ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	4000≤Palt<6000	stowed	n1error < -100	1
8	1888	31.467	85892ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1896	31.600	85892ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1904	31.733	8d892ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1912	31.867	75894eb4	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.15≤Mach<0.3	60≤PLA<MX CRS	4000≤Palt<6000	stowed	n1error > 100	1
8	1920	32.000	22892a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1928	32.133	2a892a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1936	32.267	2a892a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1944	32.400	2a892a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.15≤Mach<0.3	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1952	32.533	298a2a23	40≤N1<50	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1960	32.667	738a699a	30≤N1<40	60≤N2<70	400-(mx-300)	Air	0.3≤Mach<0.5	7≤PLA<40	4000≤Palt<6000	stowed	n1error < -100	1
8	1968	32.800	218a2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1976	32.933	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1

8	1984	33.067	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	1992	33.200	8c8a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2000	33.333	848a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2008	33.467	848a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2016	33.600	848a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2024	33.733	848a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2032	33.867	848a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2040	34.000	848a2ec4	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	1
8	2048	34.133	0c0a2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	4000≤Palt<6000	stowed	AM abs(n1error)≤100	0
16	2064	34.400	74922ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2080	34.667	689232d4	75≤N1<80	80≤N2<90	(mx-200)-(mx-100)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2096	34.933	689232d4	75≤N1<80	80≤N2<90	(mx-200)-(mx-100)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2112	35.200	689232d4	75≤N1<80	80≤N2<90	(mx-200)-(mx-100)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2128	35.467	64924ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	9000≤Palt<12000	stowed	n1error > 100	1
16	2144	35.733	30922519	30≤N1<40	50≤N2<60	<400	Air	0.3≤Mach<0.5	PLA<7	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2160	36.000	f0926519	30≤N1<40	50≤N2<60	<400	Air	0.3≤Mach<0.5	PLA<7	9000≤Palt<12000	stowed	n1error < -100	1
16	2176	36.267	6f936599	30≤N1<40	60≤N2<70	<400	Air	Mach≥0.5	PLA<7	9000≤Palt<12000	stowed	n1error < -100	1
16	2192	36.533	6b976599	30≤N1<40	60≤N2<70	<400	Air	Mach≥0.5	PLA<7	12000≤Palt<15000	stowed	n1error < -100	1
16	2208	36.800	9f9729a1	40≤N1<50	60≤N2<70	400-(mx-300)	Air	Mach≥0.5	PLA<7	12000≤Palt<15000	stowed	AM abs(n1error)≤100	1
16	2224	37.067	1e972a21	40≤N1<50	70≤N2<80	400-(mx-300)	Air	Mach≥0.5	PLA<7	12000≤Palt<15000	stowed	AM abs(n1error)≤100	1
16	2240	37.333	921b2a29	50≤N1<55	70≤N2<80	400-(mx-300)	Air	Mach≥0.5	PLA<7	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0
16	2256	37.600	8a1b2a31	55≤N1<60	70≤N2<80	400-(mx-300)	Air	Mach≥0.5	PLA<7	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0
16	2272	37.867	fe1b2eb9	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	PLA<7	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0
16	2288	38.133	fe1b2eb9	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	PLA<7	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0
16	2304	38.400	fe1b2eb9	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	PLA<7	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0
16	2320	38.667	f51b2ec2	65≤N1<70	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	7≤PLA<40	15000≤Palt<25000	stowed	AM abs(n1error)≤100	0
16	2336	38.933	888e2ebc	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	6000≤Palt<9000	stowed	AM abs(n1error)≤100	1
16	2352	39.200	1d8e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	1
16	2368	39.467	1d8e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	1
16	2384	39.733	1d8e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	1
16	2400	40.000	1d8e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	1
16	2416	40.267	1d8e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	1
16	2432	40.533	1d8e2a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	1
16	2448	40.800	958e2ab3	55≤N1<60	80≤N2<90	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	1
16	2464	41.067	918e2eb3	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	40≤PLA<60	6000≤Palt<9000	stowed	AM abs(n1error)≤100	1
16	2480	41.333	85922ebb	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	40≤PLA<60	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2496	41.600	85922ebb	60≤N1<65	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	40≤PLA<60	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2512	41.867	8d922eb3	55≤N1<60	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	40≤PLA<60	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2528	42.133	6b92699a	30≤N1<40	60≤N2<70	400-(mx-300)	Air	0.3≤Mach<0.5	7≤PLA<40	9000≤Palt<12000	stowed	n1error < -100	1
16	2544	42.400	19922a2b	50≤N1<55	70≤N2<80	400-(mx-300)	Air	0.3≤Mach<0.5	40≤PLA<60	9000≤Palt<12000	stowed	AM abs(n1error)≤100	1
16	2560	42.667	b4126ecc	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	0.3≤Mach<0.5	60≤PLA<MX CRS	9000≤Palt<12000	stowed	n1error < -100	0
32	2592	43.200	649b2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	15000≤Palt<25000	stowed	AM abs(n1error)≤100	1
32	2624	43.733	609b32d3	75≤N1<80	80≤N2<90	(mx-200)-(mx-100)	Air	Mach≥0.5	40≤PLA<60	15000≤Palt<25000	stowed	AM abs(n1error)≤100	1
32	2656	44.267	6c9b2ecb	70≤N1<75	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	15000≤Palt<25000	stowed	AM abs(n1error)≤100	1
32	2688	44.800	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
32	2720	45.333	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
32	2752	45.867	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
32	2784	46.400	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1

32	2816	46.933	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
32	2848	47.467	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
32	2880	48.000	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
32	2912	48.533	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
32	2944	49.067	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
32	2976	49.600	609f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
32	3008	50.133	e01f2ed3	75≤N1<80	80≤N2<90	(mx-300)-(mx-200)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	0
32	3040	50.667	d41f32db	80≤N1<85	80≤N2<90	(mx-200)-(mx-100)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	0
32	3072	51.200	d41f32db	80≤N1<85	80≤N2<90	(mx-200)-(mx-100)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	0
64	3136	52.267	549f32db	80≤N1<85	80≤N2<90	(mx-200)-(mx-100)	Air	Mach≥0.5	40≤PLA<60	Palt≥25000	stowed	AM abs(n1error)≤100	1
64	3200	53.333	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
64	3264	54.400	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
64	3328	55.467	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
64	3392	56.533	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
64	3456	57.600	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
64	3520	58.667	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
64	3584	59.733	4a1f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	0
128	3712	61.867	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
128	3840	64.000	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
128	3968	66.133	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
128	4096	68.267	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
256	4352	72.533	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
256	4608	76.800	ca9f3364	85≤N1<90	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1
512	5120	85.333	c29f336c	90≤N1<95	90≤N2<101.5	(mx-200)-(mx-100)	Air	Mach≥0.5	60≤PLA<MX CRS	Palt≥25000	stowed	AM abs(n1error)≤100	1

Appendix E

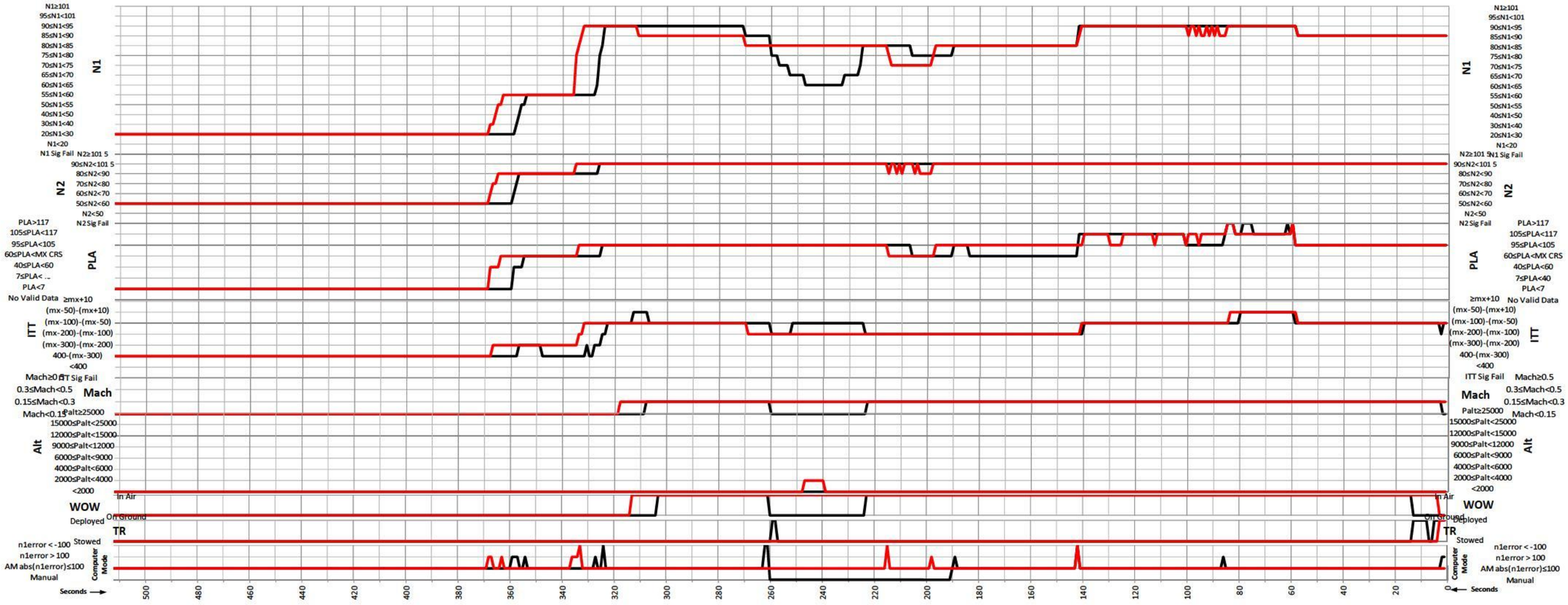
Plots of All Data Parameters, Left and Right Engines, 1-512 Seconds

(1 page)

AirEvac, Learjet 35A, XA-USD
Ft Lauderdale, FL, November 19, 2013
1-512 Seconds of Data

P74717 Eng 1: Left Engine S/N

P74715 Eng 2: Right Engine S/N



Appendix F

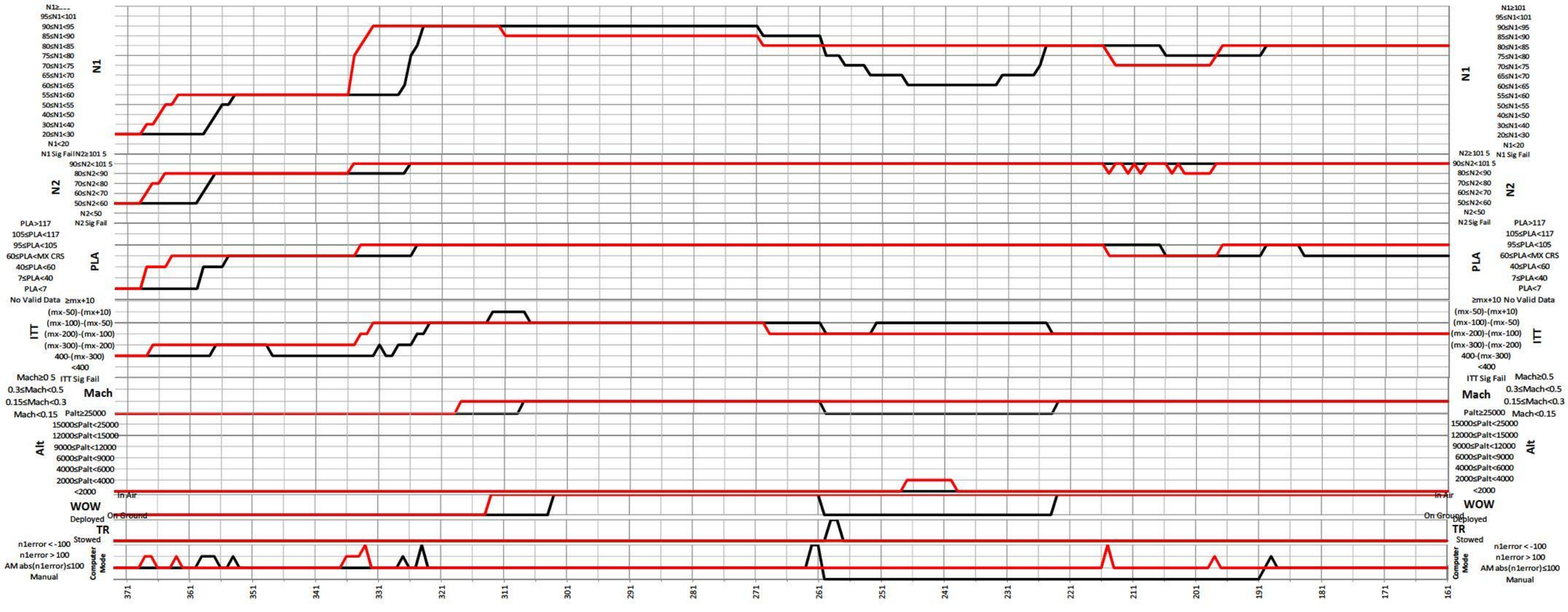
Plots of All Data Parameters, Left and Right Engines, 161 to 373 Seconds

(1 page)

AirEvac, Learjet 35A, XA-USD
Ft Lauderdale, FL, November 19, 2013
1-60 Seconds of Data

P74717 Eng 1: Left Engine S/N

P74715 Eng 2: Right Engine S/N

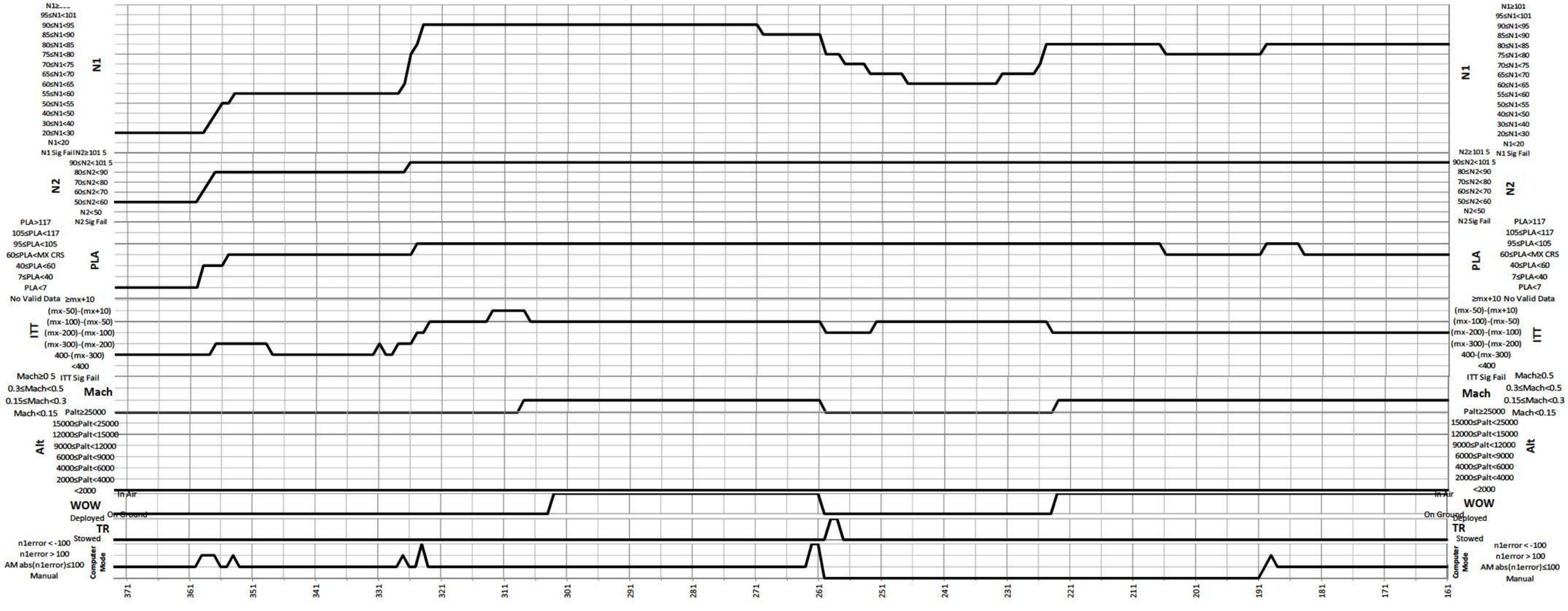


Appendix G

Plots of All Data Parameters, Left Engine Only, 161 to 373 Seconds

(1 page)

AirEvac, Learjet 35A, XA-USD
Ft Lauderdale, FL, November 19, 2013
1-60 Seconds of Data
P74717 Eng 1: Left Engine S/N
P74715 Eng 2: Right Engine S/N



Appendix H

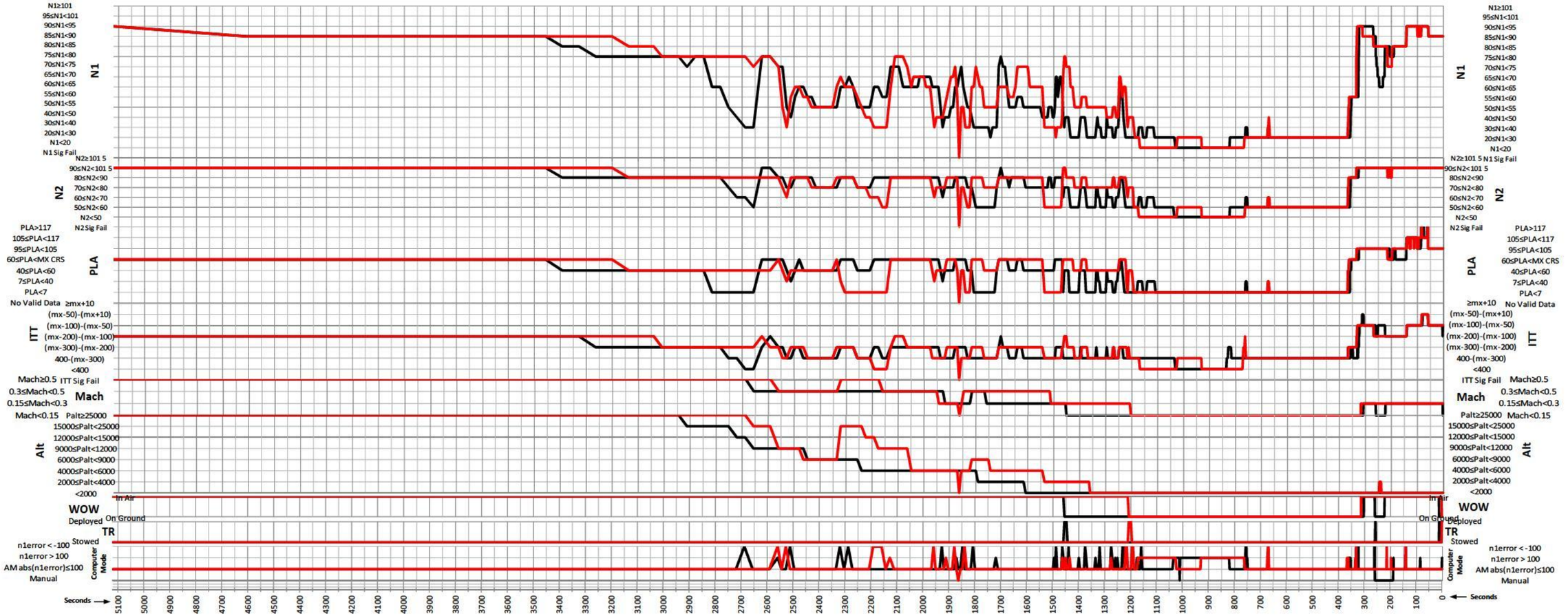
Plots of all Data Parameters, Left and Right Engine, 1 through 5120 Seconds

(1 page)

AirEvac, Learjet 35A, XA-USD
Ft Lauderdale, FL, November 19, 2013
1-5120 Seconds of Data

P74717 Eng 1: Left Engine S/N

P74715 Eng 2: Right Engine S/N



Appendix I

N1 DEEC Event Data, Right Engine P-74715

(15 Pages)

ENGINE STATISTICS DATA

ENGINE P/N	ENGINE S/N	ENGINE MODEL NO
3070300-09	074715	TFE731-2-2B

DEEC P/N	DEEC S/N	DEEC SOFTWARE VERSION
2119020-4004-05-00	045-CF0152	LC_V08_01

N1 COMPENSATOR

1

ENGINE OPERATING HOURS (H:M:S.T)	32:41:55.7
ENGINE DEICE HOURS (H:M:S.T)	38:12:58.3
NUMBER OF T/R DEPLOYMENTS MAJOR	29
NUMBER OF T/R DEPLOYMENTS MINOR	1
NUMBER OF AUTO-IGNITION EVENTS	29
NUMBER OF STARTS	0
IGNITOR ON TIME (H:M:S.T)	0:00:00.0

ENGINE OPERATING MODE: MANUAL MODE

TIME STAMP ENG FLT HRS FUEL RATIOS N1 (%) N2 (%) ITT (degC) TT2 (degF) PT2 (PSIA) MACH PLA (DEG) N1C2 (%) N2C2 (%) ITTC2 (degC) FUEL FLOW (PPH) CONTROL MODE ALTITUDE (FT) ENG STATUS

Deec Serial Number	Download Count	Date/Time
045-CF0152	47	12/19/13 09:39

Total Number of Flights = 27

(H:M:S.T)										
6564:29:58.1	0.00	0.00	260.00	-115.21	17.25	0.73	52.95			
32:41:55.7	0.00	0	4	5479	00110000000110000	0.00	0.00			
6564:28:44.5	90.02	96.46	801.94	77.83	15.13	0.18	102.76			
32:40:42.9	7.72	0	1	-731	00010000000110101	88.43	94.75			
6559:05:31.6	91.49	97.20	822.88	82.93	13.64	0.18	106.76			
29:25:00.5	7.94	0	1	2853	00010000000110101	89.45	95.03			
6556:45:30.1	89.26	96.06	792.88	77.55	15.12	0.18	101.69			
27:27:24.8	7.70	0	1	-711	00010000000110101	87.71	94.38			
6554:36:55.5	86.18	93.68	747.13	55.41	15.35	0.19	98.43			
25:31:40.9	7.53	0	1	-1258	00010000000110101	86.48	94.01			
6550:23:16.5	87.47	95.05	774.19	72.25	13.66	0.19	98.26			
21:50:34.9	7.71	0	1	2842	00010000000110101	86.37	93.86			

752.34

6546:53:35.8	93.31	97.00	824.63	59.88	11.24	0.19	103.75
18:55:42.4	8.25	0	1	8090	0001000000110101	93.23	96.91
754.91	91.35	96.84	817.19	78.98	14.44	0.18	104.52
6541:29:54.5	7.84	0	1	1011	0001000000110101	89.64	95.03
17:48:51.3	93.27	97.45	834.38	67.09	11.16	0.19	104.73
823.22	8.35	0	1	8233	0001000000110101	92.55	96.70
6539:24:13.5	90.26	96.92	813.88	89.66	15.04	0.18	106.52
16:28:16.4	7.83	0	1	-468	0001000000110101	87.70	94.18
786.88	93.86	97.62	839.94	70.36	11.17	0.18	108.38
6537:27:01.6	8.43	0	1	8235	0001000000110101	92.85	96.57
15:53:26.2	87.20	95.86	789.06	89.67	15.12	0.19	101.54
821.57	7.81	0	1	-653	0001000000110101	84.73	93.15
6536:41:20.9	90.63	95.92	806.38	66.40	11.22	0.19	100.76
15:20:22.8	8.10	0	1	8117	0001000000110101	89.99	95.24
768.46	93.44	98.02	843.50	87.64	15.16	0.19	117.88
6535:55:06.7	7.83	0	1	-721	0001000000110101	90.96	95.42
14:41:51.8	91.35	97.29	824.06	84.29	14.83	0.19	107.20
821.94	7.83	0	1	85	0001000000110101	89.20	95.00
6534:58:18.5	90.22	96.09	805.56	67.56	11.23	0.18	100.33
14:10:46.1	8.08	0	1	8068	0001000000110101	89.48	95.30
745.01	88.14	95.76	789.50	82.57	15.12	0.18	101.34
6530:28:06.8	7.75	0	1	-728	0001000000110101	86.20	93.66
11:56:05.4	90.57	96.16	809.44	65.80	11.20	0.18	100.55
795.03	8.15	0	1	8156	0001000000110101	89.99	95.54
6528:17:01.8	92.88	97.02	824.63	63.91	12.21	0.18	103.76
9:55:26.8	8.07	0	1	5982	0001000000110101	92.44	96.56
799.36	90.19	95.86	800.63	61.59	11.21	0.18	99.48
6526:27:09.9	8.19	0	1	8119	0001000000110101	89.96	95.62
8:52:22.8	89.16	95.05	809.13	67.08	11.21	0.19	97.92
785.75	8.01	0	1	8153	0001000000110101	88.47	94.32
6524:16:51.3	93.47	97.77	837.81	77.94	12.70	0.19	111.24
7:54:31.2	8.04	0	1	4945	0001000000110101	91.81	96.03
792.48	93.46	97.45	836.06	68.72	11.17	0.19	105.92
6523:02:42.1	8.33	0	1	8226	0001000000110101	92.59	96.55
6:56:59.7	89.54	96.90	807.63	90.60	15.11	0.19	104.75
755.18	7.83	0	1	-558	0001000000110101	86.94	94.07
6510:52:16.6	93.86	97.70	837.38	63.77	11.24	0.19	105.27
5:47:59.4	8.36	0	1	8089	0001000000110101	93.43	97.25
798.96	91.28	96.71	817.19	74.01	12.21	0.18	103.27
6509:10:26.3	8.12	0	1	5974	0001000000110101	89.99	95.34
4:34:43.1							
816.90							
6506:16:30.5							
4:16:44.3							
796.64							
6504:05:59.0							
3:30:29.0							
796.72							
6503:11:26.8							
2:48:11.7							
808.30							
6501:36:05.9							
1:46:04.8							
820.69							
6499:37:48.8							
0:43:12.2							
761.25							
6497:34:04.3							
0:21:16.1							
829.74							
794.20							

	91.57	96.48	813.06	64.30	11.22	0.18	101.78
6496:57:01.2	8.19	0	1	8109	0001000000110101	91.11	95.99
0:00:00.0							

CRUISE ENGINE PERFORMANCE

	N1 (%)	N2 (%)	ITT (degC)	TT2 (degF)	PT2 (PSIA)	MACH	
TIME STAMP ENG FLT HRS	FUEL RATIOS	FUEL FLOW (PPH)	CONTROL MODE	ALTITUDE (FT)	ENG STATUS	N1C2 (%)	PLA
N2C2 (%) ITTC2 (degC)							

Deec Serial Number	Download Count	Date/Time
045-CF0152	47	12/19/13 09:39

(H:M:S.T)

Total Number of Flights = 27

Stable Cruise Not Achieved

	90.99	95.90	790.56	75.91	10.71	0.32	102.74
6559:09:07.6	7.90	0	1	10294	0001000000110101	89.54	94.38
0:00:00.0							
29:28:36.5							
	88.95	95.44	779.88	81.79	11.78	0.31	101.57
6556:48:30.3	7.73	0	1	7910	0001000000110101	87.06	93.41
27:30:25.0							
	92.22	96.16	802.25	72.57	10.65	0.41	103.44
6554:41:44.8	7.85	0	1	11586	0001000000110101	91.03	94.93
25:36:30.2							
	88.48	95.05	771.19	78.50	11.73	0.33	100.23
6550:26:16.7	7.63	0	1	8239	0001000000110101	86.86	93.31
21:53:35.1							
	94.04	96.42	810.88	54.03	8.92	0.41	103.38
6546:37:58.9	8.21	0	1	15777	0001000000110101	94.49	96.89
19:00:05.5							
	90.41	95.13	784.38	73.01	9.90	0.45	100.27
6541:35:41.7	7.82	0	1	13904	0001000000110101	89.21	93.87
17:54:38.5							
	91.56	95.75	794.50	66.90	9.55	0.38	100.98
6539:28:08.9	8.11	0	1	13803	0001000000110101	90.87	95.03
16:32:11.8							
	93.18	96.13	809.00	63.69	8.59	0.47	103.24
6537:34:12.2	8.17	0	1	17648	0001000000110101	92.77	95.70
16:00:36.8							
	90.93	94.87	788.94	59.08	8.40	0.41	96.04
6536:46:32.0	8.25	0	1	17177	0001000000110101	90.92	94.87
15:25:33.9							
	88.48	95.40	775.63	84.59	12.17	0.35	101.48
6535:38:06.9	7.77	0	1	7657	0001000000110101	86.37	93.13
14:44:52.0							
	91.99	95.50	795.13	66.66	8.69	0.56	92.55
6535:05:43.3	8.02	0	1	18886	0001000000110101	91.31	94.80
14:18:10.9							
	95.67	95.76	828.25	19.96	5.51	0.47	102.05
6530:37:49.0	9.01	0	1	28371	0001000000110101	99.49	99.58
12:05:47.6							
	95.40	95.90	823.88	26.66	6.12	0.48	102.45
6528:29:54.7	8.90	0	1	26042	0001000000110101	98.52	99.04
10:08:19.7							
	94.15	96.60	819.25	58.52	8.79	0.41	100.38
6526:31:48.7	8.22	0	1	16182	0001000000110101	94.19	96.64
8:57:01.6							
	89.93	95.15	783.50	75.66	10.32	0.40	100.52
6524:22:34.6							

820.01

	7.89	0	1	12156	0001000000110101	88.52	93.65
8:00:14.5							
	93.50	95.65	808.75	46.67	7.51	0.48	100.02
6523:10:24.9	8.40	0	1	21042	0001000000110101	94.63	96.81
7:04:42.5							
	92.81	96.54	812.00	67.30	9.92	0.33	103.77
759.11							
6510:55:16.8	8.05	0	1	12351	0001000000110101	92.07	95.77
5:50:59.6							
	90.75	95.55	795.50	67.32	9.71	0.32	99.45
828.44							
6509:13:26.5	8.02	0	1	12617	0001000000110101	90.03	94.79
4:37:43.3							
	Stable Cruise Not Achieved						
799.20							
	94.67	96.94	822.94	60.69	9.01	0.44	104.51
6504:10:47.2	8.19	0	1	16029	0001000000110101	94.51	96.78
0:00:00.0							
782.94							
	94.60	96.62	821.63	54.99	8.08	0.46	104.75
6503:17:06.0	8.36	0	1	18911	0001000000110101	94.96	96.99
2:53:50.9							
	90.37	96.22	796.75	87.48	11.77	0.32	104.76
820.27							
6501:39:06.1	7.83	0	1	8162	0001000000110101	87.98	93.69
1:49:05.0							
	93.25	93.13	771.25	-15.92	3.97	0.56	93.09
828.02							
6500:19:49.3	9.17	0	1	36955	0001000000110101	100.81	100.88
1:05:12.7							
	93.27	96.46	810.19	68.25	9.41	0.44	97.74
755.27							
6497:38:56.0	8.08	0	1	15005	0001000000110101	92.45	95.61
0:26:07.8							
	92.07	96.09	803.75	65.04	9.55	0.34	101.69
901.47							
6497:00:01.4	8.07	0	1	13276	0001000000110101	91.54	95.53
0:03:00.2							
796.00							

N1/N2 ROLLDOWN TREND

794.50

OCCURRENCE	(H:M:S.T)	N1 ROLLDOWN TIME (H:M:S.T)	N2 ROLLDOWN TIME (H:M:S:T)
Deec Serial Number	Download Count	Date/Time	
045-CF0152	47	12/19/13 09:39	

Total Number of Rolldowns = 28

01	6562:21:51.9	0:01:26.2	0:00:30.9
02	6558:44:08.7	0:01:54.4	0:00:31.5
03	6556:35:57.5	99:59:59.9	99:59:59.9
04	6556:35:29.4	99:59:59.9	99:59:59.9
05	6554:11:32.4	0:01:14.1	0:00:34.5
06	6549:52:46.9	0:01:24.4	0:00:37.6
07	6542:41:28.6	0:01:31.8	0:00:40.7
08	6540:53:30.1	99:59:59.9	99:59:59.9
09	6538:05:29.6	99:59:59.9	99:59:59.9
10	6537:17:28.8	0:01:33.6	0:00:36.0
11	6536:16:12.2	99:59:59.9	99:59:59.9
12	6535:28:11.4	99:59:59.9	99:59:59.9
13	6532:46:11.7	99:59:59.9	99:59:59.9
14	6530:16:10.9	99:59:59.9	99:59:59.9
15	6527:34:10.1	0:01:21.0	0:00:37.2
16	6525:19:05.2	0:01:33.8	0:00:40.9
17	6524:00:31.4	99:59:59.9	99:59:59.9
18	6512:06:31.1	0:01:30.7	0:00:41.9

ROLLDOWN TIME STAMPS

19	6510:27:59.2	0:01:32.5	0:00:39.4
20	6507:22:03.0	99:59:59.9	99:59:59.9
21	6506:38:37.8	0:01:37.2	0:00:38.9
22	6504:56:56.7	99:59:59.9	99:59:59.9
23	6503:56:55.9	99:59:59.9	99:59:59.9
24	6502:41:33.7	0:01:36.2	0:00:41.9
25	6501:02:56.2	99:59:59.9	99:59:59.9
26	6497:56:55.4	99:59:59.9	99:59:59.9
27	6497:20:54.6	99:59:59.9	99:59:59.9
28	6497:20:27.4	99:59:59.9	99:59:59.9

LIFE CYCLE DATA

NUMBER OF APR CYCLES	26
TOTAL TOUCH AND GOES	0
TOTAL LANDINGS W/O SHUTDOWN	0
TOTAL LANDINGS	0

STARTS, TRIPS TO M/M, AUTO IGNITION TIME STAMPS

OCCURRENCE	ENGINE START TIME STAMPS (H:M:S.T)	TRIPS TO M/M TIME STAMPS (H:M:S.T)	AUTO IGNITION TIME STAMPS (H:M:S.T)
Deec Serial Number	Download Count	Date/Time	
045-CF0152	47	12/19/13 09:39	
TOTALS		6564:29:57.4	
01	6564:19:37.0		
02	6558:52:16.4		
03	6556:36:43.2		
04	6556:35:56.6		
05	6554:29:27.0		
06	6550:13:26.5		
07	6546:28:31.4		
08	6541:13:55.0		
09	6539:13:45.6		
10	6537:17:53.0		
11	6536:32:49.7		
12	6535:29:10.0		
13	6534:45:04.9		
14	6530:22:14.1		
15	6528:09:56.5		
16	6526:12:45.4		
17	6524:07:21.0		
18	6522:56:07.4		
19	6510:43:50.0		
20	6509:02:21.1		
21	6507:22:02.1		
22	6506:02:33.4		
23	6503:57:46.5		
24	6503:00:34.7		
25	6501:29:19.3		
26	6499:50:32.9		
27	6497:26:28.5		
28	6497:20:53.7		

29

6496:51:28.3

ENGINE FAULT HISTORY

NO.	(H:M:S.T)	CODE	FAULT CODE	LRU	FAULT DESCRIPTION
Deec Serial Number	Download Count	Date/Time			
045-CF0152	47	12/19/13 09:39			
TIME STAMP SEVERITY					
Total Number of Faults = 4					
1	6564:29:58.2	2	237	NOTICE	ECTM Data buffers filled.
2	6564:29:57.4	4	38	TT2	FAULT TT2 Short Circuit
3	6564:29:57.3	4	211	FCU	Fuel Control PLA Circuit Failure
4	6564:29:57.2	2	26	ITT	ITT thermocouple circuit open

EVENT SLOW SCAN 1

TIME STAMP	N1 (%)	N2 (%)	PLA (DEG)	TT2 (deg F)	PT2 (PSIA)	MACH	ITT (degC)
ENG STATUS	CMODE	FUEL RATIO					
No Data							

EVENT SLOW SCAN 2

TIME STAMP	N1 (%)	N2 (%)	PLA (DEG)	TT2 (deg F)	PT2 (PSIA)	MACH	ITT (degC)
ENG STATUS	CMODE	FUEL RATIO					
Transfer to Manual Mode							
6564:30:57.2	0.00	0.00	66.45	-115.21	17.25	0.73	260.00
	7						
6564:30:52.2	0.00	0.00	65.97	-115.21	17.25	0.73	260.00
	7						
Download Required to prevent data loss.	0.00	0.00	63.08	-115.21	17.25	0.73	260.00
6564:30:47.2	7						
	0.00	0.00	65.18	-115.21	17.25	0.73	260.00
8.39 0111000000100000	7						
(PT2 < 8158 ohms)	0.00	0.00	65.16	-115.21	17.25	0.73	260.00
6564:30:37.2	7						
	0.00	0.00	65.62	-115.21	17.25	0.73	260.00
8.39 0111000000100000	7						
6564:30:32.2	0.00	0.00	66.45	-115.21	17.25	0.73	260.00
8.39 0111000000110000	7						
Circuit fail. Defaults to 260 C	0.00	0.00	64.78	-115.21	17.25	0.73	260.00
6564:30:27.2	7						
	0.00	0.00	64.98	-115.21	17.25	0.73	260.00
8.39 0111000000110000	7						
6564:30:22.2	0.00	0.00	66.29	-115.21	17.25	0.73	260.00
8.39 0111000000100000	7						
6564:30:17.2	0.00	0.00	62.97	-115.21	17.25	0.73	260.00
8.39 0111000000110000	7						
6564:30:12.2	0.00	0.00	60.30	-115.21	17.25	0.73	260.00
8.39 0111000000110000	7						
6564:30:07.2							
8.39 0111000000110000							
6564:30:02.2							
8.39 0111000000110000							
8.05 0111000000110000							

EVENT FAST SCAN 1

TIME STAMP	N1 (%)	N2 (%)	PLA (DEG)	VBIT (V)	IBIT (mA)	FUEL RATIO	ENG STATUS
7.66 0111000000110000							

No Data

CMODE

EVENT FAST SCAN 2

Transfer to Manual Mode

CMODE

TIME STAMP	N1 (%)	N2 (%)	PLA (DEG)	VBIT (V)	IBIT (mA)	FUEL RATIO	ENG STATUS
6564:30:08.1	0.00	0.00	58.76	0.06	-0.24	8.12	0111000000110000
6564:30:08.0	0.00	0.00	61.03	0.06	-0.24	8.11	0111000000110000
6564:30:07.9	0.00	0.00	56.91	0.06	-0.24	8.10	0111000000110000
6564:30:07.8	0.00	0.00	61.71	0.06	-0.24	8.10	0111000000110000
7 6564:30:07.7	0.00	0.00	58.93	0.03	-0.24	8.09	0111000000110000
7 6564:30:07.6	0.00	0.00	57.20	0.06	-0.24	8.08	0111000000110000
7 6564:30:07.5	0.00	0.00	62.97	0.06	-0.24	8.07	0111000000110000
7 6564:30:07.4	0.00	0.00	60.91	0.06	-0.24	8.07	0111000000110000
7 6564:30:07.3	0.00	0.00	63.60	0.06	-0.24	8.06	0111000000110000
7 6564:30:07.2	0.00	0.00	62.97	0.06	-0.24	8.05	0111000000110000
7 6564:30:07.1	0.00	0.00	57.92	0.06	-0.24	8.04	0111000000110000
7 6564:30:07.0	0.00	0.00	58.04	0.03	-0.24	8.04	0111000000110000
7 6564:30:06.9	0.00	0.00	62.18	0.06	-0.24	8.03	0111000000110000
7 6564:30:06.8	0.00	0.00	63.07	0.06	-0.24	8.02	0111000000110000
7 6564:30:06.7	0.00	0.00	54.16	0.06	-0.24	8.01	0111000000110000
7 6564:30:06.6	0.00	0.00	60.91	0.06	-0.24	8.01	0111000000110000
7 6564:30:06.5	0.00	0.00	62.32	0.06	-0.24	8.00	0111000000110000
7 6564:30:06.4	0.00	0.00	58.84	0.00	-0.18	7.99	0111000000110000
7 6564:30:06.3	0.00	0.00	59.20	0.06	-0.24	7.98	0111000000110000
7 6564:30:06.2	0.00	0.00	65.04	0.06	-0.24	7.98	0111000000110000
7 6564:30:06.1	0.00	0.00	61.16	0.06	-0.24	7.97	0111000000110000
7 6564:30:06.0	0.00	0.00	59.59	0.03	-0.24	7.96	0111000000110000
7 6564:30:05.9	0.00	0.00	57.80	0.06	-0.24	7.95	0111000000110000
7 6564:30:05.8	0.00	0.00	62.15	0.06	-0.24	7.95	0111000000110000

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6564:30:05.7	0.00	0.00	64.96	0.06	-0.24	7.94 0111000000110000
6564:30:05.6	0.00	0.00	60.89	0.06	-0.24	7.93 0111000000110000
6564:30:05.5	0.00	0.00	60.02	0.06	-0.24	7.92 0111000000110000
6564:30:05.4	0.00	0.00	65.84	0.06	-0.24	7.92 0111000000110000
6564:30:05.3	0.00	0.00	63.16	0.06	-0.24	7.91 0111000000110000
6564:30:05.2	0.00	0.00	65.95	0.06	-0.24	7.90 0111000000110000
6564:30:05.1	0.00	0.00	64.81	0.06	-0.24	7.89 0111000000110000
6564:30:05.0	0.00	0.00	65.20	0.06	-0.24	7.89 0111000000110000
6564:30:04.9	0.00	0.00	61.48	0.06	-0.24	7.88 0111000000110000
6564:30:04.8	0.00	0.00	66.32	0.03	-0.24	7.87 0111000000110000
6564:30:04.7	0.00	0.00	63.48	0.03	-0.24	7.86 0111000000110000
6564:30:04.6	0.00	0.00	63.52	0.06	-0.24	7.86 0111000000110000
6564:30:04.5	0.00	0.00	62.66	0.06	-0.24	7.85 0111000000110000
6564:30:04.4	0.00	0.00	59.89	0.06	-0.24	7.84 0111000000110000
6564:30:04.3	0.00	0.00	63.06	0.06	-0.24	7.83 0111000000110000
6564:30:04.2	0.00	0.00	58.10	0.03	-0.24	7.83 0111000000110000
6564:30:04.1	0.00	0.00	59.86	0.03	-0.24	7.82 0111000000110000
6564:30:04.0	0.00	0.00	60.29	0.03	-0.24	7.81 0111000000110000
6564:30:03.9	0.00	0.00	60.16	0.06	-0.24	7.80 0111000000110000
6564:30:03.8	0.00	0.00	62.24	0.06	-0.24	7.80 0111000000110000
6564:30:03.7	0.00	0.00	64.82	0.06	-0.24	7.79 0111000000110000
6564:30:03.6	0.00	0.00	63.73	0.03	-0.24	7.78 0111000000110000
6564:30:03.5	0.00	0.00	60.15	0.03	-0.24	7.77 0111000000110000
6564:30:03.4	0.00	0.00	61.45	0.06	-0.24	7.77 0111000000110000
6564:30:03.3	0.00	0.00	60.66	0.06	-0.24	7.76 0111000000110000
6564:30:03.2	0.00	0.00	65.84	0.06	-0.24	7.75 0111000000110000
6564:30:03.1	0.00	0.00	63.07	0.06	-0.24	7.74 0111000000110000
6564:30:03.0	0.00	0.00	65.80	0.06	-0.24	7.74 0111000000110000
6564:30:02.9	0.00	0.00	63.01	0.03	-0.24	7.73 0111000000110000
6564:30:02.8	0.00	0.00	66.29	0.03	-0.24	7.72 0111000000110000
6564:30:02.7	0.00	0.00	63.41	0.06	-0.24	7.71 0111000000110000

0.00	0.00	63.28	0.06	-0.24	7.71	0111000000110000
0.00	0.00	61.98	0.06	-0.24	7.70	0111000000110000
0.00	0.00	62.43	0.03	-0.24	7.69	0111000000110000
0.00	0.00	59.16	0.06	-0.24	7.68	0111000000110000
0.00	0.00	60.30	0.06	-0.24	7.68	0111000000110000
0.00	0.00	65.20	0.06	-0.24	7.67	0111000000110000
0.00	0.00	59.98	0.06	-0.24	7.66	0111000000110000
0.00	0.00	57.03	0.06	-0.24	7.65	0111000000100000
0.00	0.00	60.43	0.06	-0.24	7.65	0111000000110000
0.00	0.00	62.50	0.06	-0.24	7.64	0111000000110000
0.00	0.00	63.53	0.06	-0.24	7.63	0111000000110000
0.00	0.00	63.64	0.06	-0.24	7.62	0111000000110000
0.00	0.00	61.34	0.06	-0.24	7.62	0111000000110000
0.00	0.00	60.18	0.06	-0.24	7.61	0111000000110000
0.00	0.00	58.38	0.06	-0.24	7.60	0111000000100000
0.00	0.00	58.04	0.06	-0.24	7.59	0111000000110000
0.00	0.00	63.15	0.03	-0.24	7.59	0111000000110000
0.00	0.00	62.91	0.06	-0.24	7.58	0111000000110000
0.00	0.00	62.88	0.06	-0.24	7.57	0111000000100000
0.00	0.00	56.16	0.06	-0.24	7.56	0111000000110000
0.00	0.00	58.84	0.03	-0.24	7.56	0111000000110000
0.00	0.00	57.55	0.03	-0.24	7.55	0111000000110000
0.00	0.00	58.93	0.06	-0.24	7.54	0111000000110000
0.00	0.00	63.09	0.06	-0.24	7.53	0111000000110000
0.00	0.00	58.29	0.03	-0.24	7.53	0111000000110000
0.00	0.00	61.77	0.06	-0.24	7.52	0111000000110000
0.00	0.00	63.15	0.03	-0.24	7.51	0111000000110000
0.00	0.00	61.13	0.06	-0.24	7.50	0111000000110000
0.00	0.00	60.78	0.06	-0.24	7.50	0111000000100000
0.00	0.00	58.26	0.06	-0.24	7.49	0111000000110000

6564:30:02.6
6564:30:02.5
6564:30:02.4
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6564:30:02.3
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6564:30:02.2
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6564:30:02.1
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6564:30:02.0
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6564:30:01.9
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6564:30:01.8
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6564:30:01.7
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6564:30:01.6
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6564:30:01.5
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6564:30:01.4
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6564:30:01.3
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6564:30:01.2
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6564:30:01.1
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6564:30:01.0
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6564:30:00.9
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6564:30:00.8
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6564:30:00.7
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6564:30:00.6
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6564:30:00.5
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6564:30:00.4
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6564:30:00.3
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6564:30:00.2
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6564:30:00.1
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6564:30:00.0
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6564:29:59.9
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6564:29:59.8
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6564:29:59.7
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6564:29:59.6	0.00	0.00	57.60	0.03	-0.24	7.48 0111000000110000
6564:29:59.5	0.00	0.00	61.34	0.03	-0.24	7.47 0111000000110000
6564:29:59.4	0.00	0.00	58.55	0.03	-0.24	7.47 0111000000110000
6564:29:59.3	0.00	0.00	55.34	0.03	-0.24	7.46 0111000000110000
6564:29:59.2	0.00	0.00	54.30	0.06	-0.24	7.45 0111000000110000
6564:29:59.1	0.00	0.00	57.09	0.06	-0.24	7.44 0111000000110000
6564:29:59.0	0.00	0.00	59.31	0.06	-0.24	7.44 0111000000110000
6564:29:58.9	0.00	0.00	55.72	0.06	-0.24	7.43 0111000000110000
6564:29:58.8	0.00	0.00	61.58	0.06	-0.24	7.42 0111000000110000
6564:29:58.7	0.00	0.00	58.50	0.03	-0.24	7.41 0111000000110000
6564:29:58.6	0.00	0.00	61.41	0.06	-0.24	7.41 0111000000110000
6564:29:58.5	0.00	0.00	57.95	0.06	-0.24	7.40 0111000000110000
6564:29:58.4	0.00	0.00	58.04	0.06	-0.24	7.39 0111000000110000
6564:29:58.3	0.00	0.00	55.02	0.06	-0.24	0.00 0111000000110000
6564:29:58.2	0.00	0.00	52.95	6.63	-49.85	0.00 0011000000110000
6564:29:58.1	0.00	0.00	55.88	6.63	-49.79	0.00 0011000000100000
6564:29:58.0	0.00	0.00	55.48	6.63	-49.73	0.00 0011000000110000
6564:29:57.9	0.00	0.00	56.95	6.59	49.61	0.00 0011000000100000
6564:29:57.8	0.00	0.00	55.59	6.02	44.52	0.00 0011000000100010
6564:29:57.7	0.00	0.00	57.52	0.03	-0.24	0.00 0011000000100010
6564:29:57.6	0.00	0.00	55.15	0.06	-0.24	0.00 0011000000100010
6564:29:57.5	0.00	0.00	55.95	0.00	0.00	0.00 0011000000110000
6564:29:57.4	0.00	0.00	55.35	0.00	0.00	0.00 0011000000110000
6564:29:57.3	0.00	0.00	61.48	0.00	0.00	0.00 0011000000110000

ENGINE EXCEEDANCES

EXCEED NO.	PEAK	TIME STAMP (H:M:S.T)	TYPE

Deec Serial Number: 045-CF0152
Download Count: 47
Date/Time: 12/19/13 09:39

Total Number of N1 Exceedances = 0

N1 %

DURATION

Deec Serial Number	Download Count	Date/Time
045-CF0152	47	12/19/13 09:39

Total Number of N2 Exceedances = 0
N2 %

Deec Serial Number	Download Count	Date/Time
045-CF0152	47	12/19/13 09:39

Total Number of ITT Exceedances = 0
ITT degC

N1/N2 MAJOR SPEED CYCLES

BIN NO.	(%)	SPEED CYCLES	N2 SPEED (%)	MAJOR SPEED CYCLES
	100.00	0	100.00	0
27	99.81	0	99.89	0
26	99.52	0	99.73	0
25	99.24	0	99.41	0
24	98.90	0	99.09	0
23	98.57	0	98.78	1
22	98.18	0	98.46	0
21	97.76	0	98.01	4
20	97.30	0	97.67	3
19	96.81	4	97.19	7
18	96.29	8	96.71	4
17	95.72	5	96.24	4
16	95.13	0	95.76	2
15	94.50	3	95.28	0
14	93.85	4	94.81	0
13	93.14	0	94.33	0
12	92.21	1	93.85	0
11	91.22	0	93.38	0
10	89.06	0	92.90	0
09	87.60	0	92.50	0
08	86.64	0	92.27	0
07	83.96	0	91.79	0
06	81.00	0	91.23	0
05	77.76	0	90.52	0
04	74.22	0	89.88	0
03	70.38	0	88.61	0
02	66.22	0	86.23	0
01				

N1 SPEED

MAJOR

N1/N2 MAJOR THRUST REVERSOR SPEED CYCLES

BIN NO.	(%)	SPEED CYCLES	N2 SPEED (%)	MAJOR SPEED CYCLES
	100.87	0	100.51	0
16	100.00	0	100.00	0
15	99.08	0	99.45	0
14	98.10	0	98.87	0
13				

N1 SPEED

MAJOR

	97.06	0	98.25	0
12	95.92	0	97.58	0
11	94.69	0	96.85	1
10	93.34	0	96.04	0
09	91.84	0	95.15	0
08	90.15	0	94.15	1
07	88.21	1	93.00	0
06	85.91	0	91.63	1
05	83.07	0	89.94	0
04	79.29	0	87.70	0
03	73.39	1	84.19	6
02	21.00	27	46.00	20
01				

N1 MINOR SPEED BINS

Maximum N1 Speed (%)	BIN COUNT															
100.87																
100.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95.92	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
94.69	0	0	0	0	0	0	0	0	0	0	0	0	0	17	10	0
93.34	0	0	0	0	0	0	0	0	0	0	0	0	8	14	5	0
91.84	0	0	0	0	0	0	0	1	0	0	0	0	3	2	0	0
90.15	0	0	0	0	0	0	0	0	0	1	0	0	1			
88.21	0	0	0	0	0	0	0	0	0	0	1	0	1	5	0	0
85.91	0	0	0	1	0	0	0	0	0	0	0	0	2	3	0	0
83.07	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0
79.29	0	0	0	1	0	4	1	1	1	0	0	2	12	6	0	0
73.39	0	0	0	2	5	4	2	3	2	5	1	6	0	0	0	0
21.00	0	0	5	49	22	92	26	18	28	29	24	19	0	0	0	0
	25.57	26.57	28.23	30.55	33.55	37.20	41.52	46.50	52.15	58.47	65.44	73.09	81.39	90.36	100.00	

Minimum N1 Speed (%)

N2 MINOR SPEED BINS
24.00

Maximum N2 Speed (%)	BIN COUNT															
100.51																
100.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97.58	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
96.85	1	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
96.04	0	0	0	0	0	1	0	0	1	0	1	1	1	1	0	0
95.15	1	0	0	0	0	0	1	0	0	0	0	0	0	7	2	0
94.15	0	0	0	1	0	0	0	0	0	0	0	0	1	9	0	0
93.00	0	0	0	0	0	0	0	0	0	3	0	1	0	10	0	0
91.63	1	1	0	0	3	0	2	2	0	0	0	2	3	9	0	0
89.94	1	0	2	2	4	1	0	1	0	2	0	2	15	11	0	0
87.70	2	0	0	0	3	2	2	0	4	1	3	7	43			
84.19	0	1	1	0	1	1	7	4	3	3	10	37	38	0	0	0
46.00	10	2	29	39	21	28	60	131	45	84	81	54	0	0	0	0
	55.78	56.37	57.36	58.74	60.52	62.69	65.26	68.22	71.57	75.32	79.47	84.01	88.95	94.28	100.00	

Minimum N2 Speed (%)

ITT PEAK/AVERAGE TEMPERATURE

BIN NO.	deg C	ITT (30 second average)	ITT (peak)
62	above 1035	0	
61	1030 to <1035	0	
60	1025 to <1030	0	0
59	1020 to <1025	0	0
58	1015 to <1020	0	0
57	1010 to <1015	0	0
56	1005 to <1010	0	0
55	1000 to <1005	0	0
54	995 to <1000	0	0
53	990 to <995	0	0
52	985 to <990	0	0
51	980 to <985	0	0
50	975 to <980	0	0
49	970 to <975	0	0
48	965 to <970	0	0
47	960 to <965	0	0
46	955 to <960	0	0
45	950 to <955	0	0
44	945 to <950	0	0
43	940 to <945	0	0
42	935 to <940	0	0
41	930 to <935	0	0
40	925 to <930	0	0
39	920 to <925	0	0
38	915 to <920	0	0
37	910 to <915	0	0
36	905 to <910	0	0
35	900 to <905	0	0
34	895 to <900	0	0
33	890 to <895	0	0
32	885 to <890	0	0
31	880 to <885	0	0
30	875 to <880	0	0
29	870 to <875	0	0
28	865 to <870	0	0
27	860 to <865	0	0
26	855 to <860	0	0
25	850 to <855	14	0
24	845 to <850	30	0
23	840 to <845	152	1
22	835 to <840	153	3
21	830 to <835	225	3
20	825 to <830	139	9
19	820 to <825	125	2
18	815 to <820	50	4
17	810 to <815	97	3
16	805 to <810	99	0
15	800 to <805	89	0
14	795 to <800	48	0
13	790 to <795	148	0
12	785 to <790	158	0
11	780 to <785	326	0
10	775 to <780	129	0
09	770 to <775	102	0
08	765 to <770		0
07	760 to <765		0
06	755 to <760		0
			0

ITT MINOR BINS

BIN NO.	DEGREES	BIN COUNT
01		154
02		235
03		51
04		43
05	750 to <755	2087
01	745 to <750	0
02	740 to <745	0
03	735 to <740	0
04	730 to <735	0
05	725 to <730	3

Maximum ITT (degC)

	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825
1050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
875	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
850	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	17	0
825	0	0	0	0	0	0	0	0	0	0	0	1	0	1	7	15	9
800	0	0	1	0	0	0	0	0	0	0	0	0	4	8	10		0
775	0	0	0	0	0	0	0	0	0	0	1	0	2	6	10		
750	2	0	0	1	0	1	0	0	0	1	0	1	4	4			
725	5	2	4	1	1	1	0	1	0	1	2	6	4				
700	4	10	16	9	2	1	1	2	2	5	11	4					
675	2	2	4	10	1	0	2	2	6	17	16						
650	0	2	8	14	6	5	2	11	23	12							
625	1	1	2	13	6	5	5	22	24								
600	0	3	5	9	13	6	20	14									
575	0	4	10	16	10	17	8										
550	0	5	21	19	34	24											
525	0	3	13	75	90												
500	1	6	20	53													
475	0	5	11														
450	0	2															
425	2																
270																	

Minimum ITT (degC)

PLA USAGE PROFILE

BIN NO.	DEGREES	PLA BINS (5 second peak)
01		
02		
03	20 to <26	
04	26 to <30	5532
05	30 to <40	0
06	40 to <50	221
07	50 to <60	923
PLA	60 to <70	1556
		1016
		1441

70 to <74
74 to <77 1601
77 to <80 1792
80 to <83 1304
83 to <86
86 to <89 406
89 to <92 840
92 to <95 3084
95 to <98 1775
98 to <102 1396
102 to <105
105 to <108 570
108 to <110 2685
110 to <113 1453
113 to <117
117 to <123 490
above 123 49

PLENUM DELTA PRESSURE CYCLES 12

Maximum Delta Pressure Ratios

										BIN COUNT					
1.027	85	3	0	0	0	0	0	0	3	26	11	11	9	16	320
1.000	2	0	0	0	0	0	0	0	0	7	0	1	0	5	0
0.972	2	0	0	0	0	0	0	0	0	1	2	0	2	3	0
0.944	4	0	0	0	0	0	0	0	0	1	0	1	6	0	0
0.914	6	1	0	0	0	0	0	0	0	0	1	0	5	0	0
0.884	6	2	0	0	0	0	0	0	0	2	2	1	2	0	0
0.853	7	12	0	0	0	0	0	0	0	5	1	0	0	0	0
0.820	5	0	0	0	0	0	0	0	0	3	1	0	0	0	0
0.787	5	0	0	0	0	0	0	0	0	5	4	0	0	0	0
0.751	9	0	0	0	0	0	0	0	0	2	1	0	0	0	0
0.714	2	0	0	0	0	0	0	0	0	5	3	0	0	0	0
0.673	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0
0.630	44	0	0	0	0	0	0	0	1	0	0	0	0	0	0
0.581	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.522	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.423	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.09	0.13	0.17	0.23	0.28	0.35	0.41	0.48	0.55	0.62	0.69	0.77	0.84	0.92	1.00

Minimum Delta Pressure Ratios

0.00

Appendix J

N1 DEEC Event Data, Left Engine P-74717

(17 Pages)

ENGINE STATISTICS DATA

ENGINE P/N	ENGINE S/N	ENGINE MODEL NO
3070300-09	074717	TFE731-2-2B

DEEC P/N	DEEC S/N	DEEC SOFTWARE VERSION
2119020-4004-05-00	045-CF0149	LC_V08_01

N1 COMPENSATOR

1

32:43:49.0

36:05:55.3

ENGINE OPERATING HOURS (H:M:S.T)
NUMBER OF DEEC CHANNEL TRANSFERS TO MANUAL MODE

27

NUMBER OF T/R DEPLOYMENTS MAJOR

2

NUMBER OF T/R DEPLOYMENTS MINOR

34

NUMBER OF AUTO-IGNITION EVENTS

0:00:00.0

NUMBER OF STARTS

0

ENG FLT HRS

0

IGNITOR ON TIME (H:M:S.T)

TASK 8 ENGINE PERFORMANCE

Deec Serial Number	Download Count	Date/Time
045-CF0149	110	12/19/13 09:44

Total Number of Flights = 27

TIME STAMP	ENG FLT HRS (H:M:S.T)	N1 (%)	N2 (%)	ITT (degC)	TT2 (degF)	PT2 (PSIA)	MACH	PLA (DEG)	FUEL RATIOS	FUEL FLOW (PPH)	CONTROL MODE	ALTITUDE (FT)	ENG STATUS	N1C2 (%)	N2C2 (%)	ITTC2 (degC)
6534:48:22.5	32:43:49.0	0.00	0.00	260.00	-115.21	12.76	0.40	63.66	0.00	0	4	7097	0111000000110000	0.00	0.00	391.49
6534:46:40.1	32:40:08.8	90.57	97.38	803.63	77.22	15.17	0.18	103.27	7.74	0	1	-856	0001000000110101	89.02	95.71	776.35
6529:23:26.7	29:24:28.0	92.35	98.38	832.56	81.84	13.67	0.18	109.12	7.87	0	1	2790	0001000000110101	90.38	96.29	797.45
6527:03:25.9	27:26:54.0	92.41	97.91	817.00	76.91	15.17	0.19	106.58	7.74	0	1	-833	0001000000110101	90.85	96.26	789.73

6524:55:19.4	88.94	95.19	760.06	54.77	15.37	0.19	101.73
23:31:20.0	7.47	0	1	-1336	0001000000110101	89.30	95.58
766.32							
24:50:17.9	90.34	96.67	788.44	71.45	13.69	0.19	101.72
6520:41:44.1	7.70	0	1	2795	0001000000110101	89.27	95.53
769.95							
18:55:25.9	94.81	98.29	830.19	58.32	11.25	0.19	106.88
6517:14:59.3	8.23	0	1	8026	0001000000110101	94.87	98.35
831.28							
17:48:35.0	92.12	97.54	811.75	78.08	14.45	0.18	106.03
6514:48:18.1	7.80	0	1	962	0001000000110101	90.47	95.80
782.94							
16:27:59.4	93.83	98.29	825.69	65.97	11.18	0.19	105.84
6509:42:36.5	8.22	0	1	8171	0001000000110101	93.20	97.63
814.73							
15:53:09.9	91.75	97.93	813.88	88.65	15.07	0.18	110.96
6507:45:27.2	7.69	0	1	-581	0001000000110101	89.23	95.24
769.86							
15:20:05.5	93.67	98.19	825.50	69.04	11.18	0.18	106.77
6507:04:02.2	8.31	0	1	8171	0001000000110101	92.77	97.25
809.82							
14:41:36.7	89.76	97.29	799.81	88.37	15.16	0.19	104.53
6505:54:49.4	7.76	0	1	-708	0001000000110101	87.32	94.65
756.95							
14:10:30.8	93.44	97.95	821.00	65.12	11.23	0.19	104.60
6505:16:18.1	8.11	0	1	8062	0001000000110101	92.89	97.37
811.42							
14:56:08.1	93.69	98.63	835.88	86.10	15.18	0.19	117.77
6500:46:07.4	7.73	0	1	-775	0001000000110101	91.33	96.15
794.37							
9:55:29.7	92.09	98.14	816.88	83.22	14.85	0.19	109.16
6498:32:25.3	7.78	0	1	21	0001000000110101	90.01	95.93
780.43							
8:52:34.7	92.87	97.77	814.88	65.66	11.26	0.18	103.81
6496:45:33.3	8.10	0	1	7995	0001000000110101	92.28	97.15
804.55							
7:54:44.6	89.01	96.57	785.00	81.75	15.17	0.18	102.26
6494:35:05.9	7.64	0	1	-832	0001000000110101	87.12	94.52
752.01							
6:57:12.1	92.96	97.74	817.38	64.55	11.21	0.18	103.88
6493:20:18.0	8.19	0	1	8096	0001000000110101	92.46	97.22
808.72							
5:48:07.0	92.45	97.36	804.88	62.80	12.23	0.19	103.09
6491:12:21.4	8.06	0	1	5917	0001000000110101	92.12	97.01
799.03							
4:34:50.7	91.51	96.84	794.38	60.52	11.23	0.19	101.22
6489:30:31.1	8.09	0	1	8057	0001000000110101	91.37	96.70
792.06							
4:16:51.6	89.78	95.48	802.00	65.92	11.22	0.19	96.47
6476:35:55.0	6.98	0	1	8097	0001000000110101	89.18	94.85
791.44							
3:30:36.9	95.05	99.02	847.38	76.40	12.71	0.19	117.01
6474:25:25.3	8.15	0	1	4900	0001000000110101	93.49	97.40
819.87							
3:18:18.8	93.98	98.29	829.44	68.04	11.18	0.19	107.41
6473:30:33.0	8.19	0	1	8163	0001000000110101	93.17	97.44

815.24

1:46:07.0	91.18	97.95	813.38	89.53	15.12	0.19	109.40
6471:55:32.9	7.80	0	1	-613	0001000000110101	88.61	95.18
768.16							
0:40:14.8	92.09	97.47	808.56	62.66	11.25	0.19	102.30
6470:17:15.3	8.13	0	1	8023	0001000000110101	91.76	97.12
802.89							
0:21:10.7	91.95	97.47	808.75	72.88	12.22	0.18	103.86
6467:53:31.2	7.98	0	1	5930	0001000000110101	90.74	96.19
787.67							
0:00:00.0	91.57	96.96	801.19	63.71	11.24	0.19	101.77
6467:16:56.3	8.06	0	1	8042	0001000000110101	91.16	96.52
793.98							

CRUISE ENGINE PERFORMANCE

TIME STAMP	N1 (%) FUEL RATIOS	N2 (%) FUEL FLOW (PPH)	ITT (degC) CONTROL MODE	TT2 (degF) ALTITUDE (FT)	PT2 (PSIA) ENG STATUS	MACH N1C2 (%)	PLA (DEG) N2C2 (%)	ITTC2
ENG ELT HRS								(degC)
(H:M:S.T)								

Deec Serial Number	Download Count	Date/Time
045-CF0149	110	12/19/13 09:44

Total Number of Flights = 27

Stable Cruise Not Achieved

6529:33:39.9	95.26	97.54	819.25	31.51	6.56	0.43	102.89
20:00:00.0	8.71	0	1	23540	0001000000110101	97.89	100.24
865.09							
2:27:59.4	94.46	96.16	791.81	22.66	6.23	0.46	98.99
6527:14:31.3	8.59	0	1	25200	0001000000110101	97.95	99.72
851.48							
2:37:09.6	93.35	96.88	793.19	59.71	9.66	0.42	103.26
6525:01:09.0	7.87	0	1	14066	0001000000110101	93.28	96.81
792.10							
2:53:18.1	90.17	96.20	771.63	79.52	11.72	0.32	102.69
6522:44:41.3	7.54	0	1	8222	0001000000110101	88.44	94.36
742.26							
1:58:48.9	93.83	97.24	798.25	52.91	9.32	0.36	102.93
6519:15:22.3	8.05	0	1	14055	0001000000110101	94.38	97.82
807.73							
1:56:42.8	93.32	96.69	788.44	52.78	8.34	0.47	100.88
6517:56:28.0	8.10	0	1	18295	0001000000110101	93.89	97.28
798.01							
1:31:50.3	91.75	96.57	779.94	64.06	9.65	0.39	100.83
6516:46:27.4	7.87	0	1	13562	0001000000110101	91.30	96.11
772.40							
1:00:19.6	93.32	96.86	793.06	59.81	8.61	0.47	102.60
6515:52:36.9	7.96	0	1	17591	0001000000110101	93.25	96.79
791.83							
1:25:16.6	91.10	95.76	768.63	55.57	8.43	0.41	95.78
6514:50:19.3	8.05	0	1	17070	0001000000110101	91.40	98.08
773.74							
	90.60	96.84	781.44	85.67	12.16	0.35	104.59
6505:57:49.6							

14:44:36.9 7.59 0 1 7627 0001000000110101 88.36 94.44
6473:42:21.6 743.22

92.07 96.16 778.19 64.56 8.68 0.56 100.37

14:17:51.4 7.84 0 1 18818 0001000000110101 91.58 95.65
6505:23:38.3 769.93

96.34 97.07 812.56 12.63 5.50 0.46 103.18

12:05:50.5 8.89 0 1 28297 0001000000110101 100.95 101.73
6500:55:49.8 892.34

96.42 97.33 812.50 19.60 6.07 0.48 104.54

10:08:36.0 8.86 0 1 26240 0001000000110101 100.30 101.25
6498:45:31.6 879.29

93.76 97.47 802.81 57.69 9.31 0.32 103.79

8:55:34.9 8.11 0 1 13594 0001000000110101 93.88 97.59
6496:48:33.5 804.85

89.33 95.40 755.06 74.19 10.50 0.40 99.38

8:00:17.9 7.64 0 1 11804 0001000000110101 88.05 94.04
6494:40:49.2 733.58

93.56 97.11 793.94 60.34 9.42 0.41 103.77

7:01:13.5 7.99 0 1 14503 0001000000110101 93.44 96.99
6493:24:19.4 791.90

92.81 97.09 793.31 63.78 9.94 0.33 103.09

5:51:07.2 7.99 0 1 12264 0001000000110101 92.38 96.65
6481:15:21.6 786.07

91.87 96.69 785.44 63.96 9.73 0.32 101.15

4:37:50.9 7.92 0 1 12539 0001000000110101 91.44 96.23
6479:38:31.3 778.00

Stable Cruise Not Achieved
Stable Cruise Not Achieved

96.12 96.96 811.06 11.01 5.44 0.50 102.28

2:59:46.0 9.02 0 1 29060 0001000000110101 100.90 101.78
6473:42:21.6 893.75

95.01 97.09 808.19 35.71 6.68 0.43 102.65

1:55:41.4 8.69 0 1 23145 0001000000110101 97.21 99.35
6472:05:07.3 846.19

93.42 96.82 794.81 56.94 8.56 0.47 102.23

0:49:18.6 8.14 0 1 17659 0001000000110101 93.60 97.01
6470:23:09.6 797.98

92.10 96.88 790.94 73.37 10.34 0.36 103.85

0:24:10.9 7.81 0 1 11623 0001000000110101 90.85 95.56
6467:56:31.4 769.61

92.41 96.75 790.75 61.74 9.58 0.34 101.79

0:03:00.2 7.91 0 1 13160 0001000000110101 92.16 96.50
6467:10:36.5 786.60

N1/N2 ROLLDOWN TREND

OCCURRENCE Deec Serial Number	(H:M:S.T) Download Count	N1 ROLLDOWN TIME (H:M:S.T) Date/Time	N2 ROLLDOWN TIME (H:M:S:T)
045-CF0149	110	12/19/13 09:44	

Total Number of Rolldowns = 26

ROLLDOWN TIME STAMPS

01	6532:46:09.1	0:01:13.9	0:00:34.2
02	6529:04:21.8	0:01:21.5	0:00:34.8
03	6526:51:58.0	0:01:37.0	0:00:31.6
04	6524:24:11.6	0:01:15.3	0:00:30.2
05	6520:07:52.5	0:01:25.2	0:00:32.8
06	6512:56:10.2	0:01:56.4	0:00:36.5
07	6511:05:36.5	0:01:20.4	0:00:31.4
08	6508:21:05.7	0:01:39.9	0:00:38.0
09	6507:35:00.0	0:01:30.2	0:00:32.0
10	6506:33:45.1	0:01:44.0	0:00:38.9
11	6505:47:53.5	0:01:31.5	0:00:32.5
12	6503:02:14.7	0:01:31.0	0:00:36.6
13	6500:34:10.9	0:01:27.9	0:00:32.1
14	6497:49:33.4	0:01:28.1	0:00:31.9
15	6495:34:46.4	0:01:43.5	0:00:35.8
16	6494:18:54.5	0:01:21.6	0:00:31.6
17	6482:22:01.5	0:01:35.6	0:00:36.7
18	6480:45:05.4	0:01:36.5	0:00:34.2
19	6477:42:08.1	99:59:59.9	99:59:59.9
20	6476:54:27.2	0:02:40.6	0:00:37.8
21	6475:12:20.6	0:01:41.7	0:00:37.7
22	6474:14:19.3	0:04:15.2	0:00:34.7
23	6472:58:25.7	0:01:47.2	0:00:37.6
24	6471:20:54.0	0:01:46.7	0:00:31.8
25	6468:15:46.2	0:01:47.8	0:00:40.6
26	6467:38:55.0	0:01:37.3	0:00:35.4

LIFE CYCLE DATA

	28
	2
TOTAL LANDINGS W/O SHUTDOWN	0
TOTAL TOUCH AND GOES	0
TOTAL LANDINGS	

STARTS TRIPS TO M/M AUTO IGNITION TIME STAMPS
NUMBER OF APR CYCLES

OCCURRENCE Deec Serial Number	(H:M:S.T) Download Count	TRIPS TO M/M TIME STAMPS (H:M:S.T) Date/Time	AUTO IGNITION TIME STAMPS (H:M:S.T)
045-CF0149	110	12/19/13 09:44	
TOTALS		6534:48:21.8	6534:47:21.9
01 ENGINE START			
02 TIME STAMPS	6534:37:59.6		
03	6529:21:36.0		
04	6527:00:13.3		
05	6524:48:20.9		
06	6520:36:24.6		
07	6517:03:59.6		
	6511:42:06.1		

08

09 6509:32:47.3
10 6507:37:20.3
11 6506:53:56.3
12 6505:53:07.8
13 6505:03:36.8
14 6500:43:33.7
15 6498:25:56.4
16 6496:41:28.6
17 6494:30:37.8
18 6493:14:22.5
19 6481:04:32.0
20 6479:22:59.6
21 6477:42:07.2
22 6476:27:13.4
23 6474:17:40.6
24 6473:20:36.3
25 6471:49:13.7
26 6470:10:31.7
27 6467:46:21.6
6467:11:57.2

ENGINE FAULT HISTORY

NO.	(H:M:S.T)	CODE	FAULT CODE	LRU	FAULT DESCRIPTION

Deec Serial Number 045-CF0149 Download Count 110 Date/Time 12/19/13 09:44

TIME STAMP SEVERITY

Total Number of Faults = 8

1	6534:48:21.8	4	38	TT2	TT2 Short Circuit
FAULT 2	6534:48:21.7	4	211	FCU	Fuel Control PLA Circuit Failure
3	6534:48:21.6	2	26	ITT	ITT thermocouple circuit open
4	6534:48:21.6	2	237	NOTICE	ECTM Data buffers filled.
5	6534:48:21.6	2	237	NOTICE	ECTM Data buffers filled.
6	6534:47:21.9	2	237	NOTICE	ECTM Data buffers filled.
7	6534:47:21.8	4	43	DEEC/	Total Pressure rate change fail (PT2) > 10 Psia per second
8	6497:49:33.4	1	242	DEEC	ECTM data checksum failed.

(TT2 < 190 ohms)

EVENT SLOW SCAN 1

TIME STAMP	N1 (%)	N2 (%)	PLA (DEG)	TT2 (deg F)	PT2 (PSIA)	MACH	ITT (degC)	FUEL RATIO	ENG STATUS	CMODE
No Data										

EVENT SLOW SCAN 2

TIME STAMP	N1 (%)	N2 (%)	PLA (DEG)	TT2 (deg F)	PT2 (PSIA)	MACH	ITT (degC)	FUEL RATIO	ENG STATUS	CMODE
Transfer to Manual Mode										
6534:49:21.2	0.00	0.00	56.93	-115.21	12.76	0.40	260.00	8.39	0111000000100000	7
6534:49:16.2	0.00	0.00	60.17	-115.21	12.76	0.40	260.00	8.39	0111000000100000	7
6534:49:11.2	0.00	0.00	58.28	-115.21	12.76	0.40	260.00	8.39	0111000000110000	7
6534:49:06.2	0.00	0.00	56.51	-115.21	12.76	0.40	260.00	8.39	0111000000100000	7
6534:49:01.2	0.00	0.00	59.81	-115.21	12.76	0.40	260.00	8.39	0111000000110000	7
6534:48:56.5	0.00	0.00	60.89	-115.21	12.76	0.40	260.00	8.39	0111000000100000	7
6534:48:51.5	0.00	0.00	61.40	-115.21	12.76	0.40	260.00	8.39	0111000000100000	7
6534:48:46.8	0.00	0.00	59.04	-115.21	12.76	0.40	260.00	8.39	0111000000110000	7
6534:48:41.8	0.00	0.00	59.41	-115.21	12.76	0.40	260.00	8.39	0111000000110000	7
6534:48:36.8	0.00	0.00	59.89	-115.21	12.76	0.40	260.00	8.39	0111000000110000	7
6534:48:31.8	0.00	0.00	63.54	-115.21	12.76	0.40	260.00	8.39	0111000000110000	7
6534:48:26.8	0.00	0.00	61.66	-115.21	12.76	0.40	260.00	8.05	0111000000110000	7

EVENT FAST SCAN 1

TIME STAMP	N1 (%)	N2 (%)	PLA (DEG)	VBIT (V)	IBIT (mA)	FUEL RATIO	ENG STATUS	CMODE
No Data								

EVENT FAST SCAN 2

TIME STAMP	N1 (%)	N2 (%)	PLA (DEG)	VBIT (V)	IBIT (mA)	FUEL RATIO	ENG STATUS	CMODE
Transfer to Manual Mode								
6534:48:32.5	0.00	0.00	60.84	0.06	-0.24	8.12	0111000000110000	7
6534:48:32.4	0.00	0.00	60.84	0.06	-0.24	8.11	0111000000110000	7
6534:48:32.3	0.00	0.00	58.72	0.06	-0.24	8.10	0111000000110000	7
6534:48:32.2	0.00	0.00	55.56	0.06	-0.24	8.10	0111000000110000	7

	0.00	0.00	59.89	0.06	-0.24	8.09 0111000000110000
6534:48:32.17	0.00	0.00	58.05	0.06	-0.24	8.08 0111000000110000
6534:48:32.07	0.00	0.00	61.45	0.06	-0.24	8.07 0111000000110000
6534:48:31.97	0.00	0.00	62.46	0.06	-0.24	8.07 0111000000100000
6534:48:31.87	0.00	0.00	62.32	0.06	-0.24	8.06 0111000000110000
6534:48:31.77	0.00	0.00	63.54	0.06	-0.24	8.05 0111000000110000
6534:48:31.67	0.00	0.00	62.42	0.03	-0.24	8.04 0111000000110000
6534:48:31.57	0.00	0.00	59.28	0.06	-0.24	8.04 0111000000110000
6534:48:31.47	0.00	0.00	62.24	0.06	-0.24	8.03 0111000000110000
6534:48:31.37	0.00	0.00	63.41	0.06	-0.24	8.02 0111000000110000
6534:48:31.27	0.00	0.00	62.47	0.06	-0.24	8.01 0111000000110000
6534:48:31.17	0.00	0.00	65.06	0.06	-0.24	8.01 0111000000110000
6534:48:31.07	0.00	0.00	63.64	0.06	-0.24	8.00 0111000000110000
6534:48:30.97	0.00	0.00	62.63	0.06	-0.24	7.99 0111000000110000
6534:48:30.87	0.00	0.00	62.75	0.06	-0.24	7.98 0111000000100000
6534:48:30.77	0.00	0.00	63.99	0.00	-0.18	7.98 0111000000110000
6534:48:30.67	0.00	0.00	62.13	0.03	-0.24	7.97 0111000000110000
6534:48:30.57	0.00	0.00	60.91	0.06	-0.24	7.96 0111000000110000
6534:48:30.47	0.00	0.00	62.32	0.03	-0.24	7.95 0111000000100000
6534:48:30.37	0.00	0.00	59.57	0.06	-0.24	7.95 0111000000100000
6534:48:30.27	0.00	0.00	61.67	0.06	-0.24	7.94 0111000000110000
6534:48:30.17	0.00	0.00	63.01	0.06	-0.24	7.93 0111000000110000
6534:48:30.07	0.00	0.00	61.70	0.06	-0.24	7.92 0111000000100000
6534:48:29.97	0.00	0.00	61.71	0.06	-0.24	7.92 0111000000110000
6534:48:29.87	0.00	0.00	58.99	0.03	-0.24	7.91 0111000000100000
6534:48:29.77	0.00	0.00	62.34	0.06	-0.24	7.90 0111000000100000
6534:48:29.67	0.00	0.00	61.90	0.06	-0.24	7.89 0111000000100000
6534:48:29.57	0.00	0.00	60.55	0.06	-0.24	7.89 0111000000110000
6534:48:29.47						

	0.00	0.00	61.98	0.06	-0.24	7.88 0111000000110000
6534:48:29.37	0.00	0.00	60.63	0.06	-0.24	7.87 0111000000100000
6534:48:29.27	0.00	0.00	60.63	0.06	-0.24	7.86 0111000000110000
6534:48:29.17	0.00	0.00	63.50	0.03	-0.24	7.86 0111000000110000
6534:48:29.07	0.00	0.00	62.19	0.06	-0.24	7.85 0111000000110000
6534:48:28.97	0.00	0.00	62.66	0.06	-0.24	7.84 0111000000100000
6534:48:28.87	0.00	0.00	59.32	0.06	-0.24	7.83 0111000000100000
6534:48:28.77	0.00	0.00	62.82	0.06	-0.24	7.83 0111000000100000
6534:48:28.67	0.00	0.00	62.82	0.06	-0.24	7.82 0111000000110000
6534:48:28.57	0.00	0.00	62.76	0.06	-0.24	7.81 0111000000100000
6534:48:28.47	0.00	0.00	61.42	0.06	-0.24	7.80 0111000000100000
6534:48:28.37	0.00	0.00	61.47	0.06	-0.30	7.80 0111000000110000
6534:48:28.27	0.00	0.00	61.55	0.03	-0.24	7.79 0111000000110000
6534:48:28.17	0.00	0.00	61.58	0.06	-0.24	7.78 0111000000100000
6534:48:28.07	0.00	0.00	61.57	0.06	-0.24	7.77 0111000000100000
6534:48:27.97	0.00	0.00	59.86	0.06	-0.24	7.77 0111000000100000
6534:48:27.87	0.00	0.00	63.88	0.06	-0.24	7.76 0111000000100000
6534:48:27.77	0.00	0.00	61.81	0.06	-0.24	7.75 0111000000110000
6534:48:27.67	0.00	0.00	61.81	0.03	-0.24	7.74 0111000000110000
6534:48:27.57	0.00	0.00	61.81	0.06	-0.30	7.74 0111000000110000
6534:48:27.47	0.00	0.00	56.38	0.06	-0.24	7.73 0111000000110000
6534:48:27.37	0.00	0.00	62.17	0.06	-0.24	7.72 0111000000110000
6534:48:27.27	0.00	0.00	59.02	0.06	-0.24	7.71 0111000000110000
6534:48:27.17	0.00	0.00	62.38	0.06	-0.24	7.71 0111000000110000
6534:48:27.07	0.00	0.00	63.64	0.03	-0.24	7.70 0111000000110000
6534:48:26.97	0.00	0.00	61.54	0.06	-0.24	7.69 0111000000110000
6534:48:26.87	0.00	0.00	61.55	0.06	-0.24	7.68 0111000000110000
6534:48:26.77	0.00	0.00	61.66	0.06	-0.24	7.68 0111000000110000
6534:48:26.67						

6534:48:26.57	0.00	0.00	61.73	0.03	-0.24	7.67 0111000000100000
6534:48:26.47	0.00	0.00	61.78	0.06	-0.24	7.66 0111000000110000
6534:48:26.37	0.00	0.00	64.51	0.06	-0.24	7.65 0111000000110000
6534:48:26.27	0.00	0.00	62.94	0.06	-0.24	7.65 0111000000110000
6534:48:26.17	0.00	0.00	64.52	0.06	-0.24	7.64 0111000000110000
6534:48:26.07	0.00	0.00	62.25	0.06	-0.24	7.63 0111000000110000
6534:48:25.97	0.00	0.00	62.28	0.06	-0.24	7.62 0111000000110000
6534:48:25.87	0.00	0.00	58.48	0.06	-0.24	7.62 0111000000110000
6534:48:25.77	0.00	0.00	59.01	0.06	-0.24	7.61 0111000000110000
6534:48:25.67	0.00	0.00	60.63	0.06	-0.24	7.60 0111000000110000
6534:48:25.57	0.00	0.00	61.13	0.06	-0.24	7.59 0111000000110000
6534:48:25.47	0.00	0.00	61.79	0.06	-0.24	7.59 0111000000110000
6534:48:25.37	0.00	0.00	61.81	0.06	-0.24	7.58 0111000000110000
6534:48:25.27	0.00	0.00	60.25	0.06	-0.24	7.57 0111000000110000
6534:48:25.17	0.00	0.00	57.25	0.06	-0.24	7.56 0111000000110000
6534:48:25.07	0.00	0.00	61.28	0.06	-0.24	7.56 0111000000110000
6534:48:24.97	0.00	0.00	59.27	0.06	-0.24	7.55 0111000000110000
6534:48:24.87	0.00	0.00	62.13	0.03	-0.24	7.54 0111000000110000
6534:48:24.77	0.00	0.00	60.97	0.06	-0.24	7.53 0111000000110000
6534:48:24.67	0.00	0.00	58.06	0.03	-0.24	7.53 0111000000110000
6534:48:24.57	0.00	0.00	59.52	0.06	-0.24	7.52 0111000000110000
6534:48:24.47	0.00	0.00	60.82	0.06	-0.24	7.51 0111000000110000
6534:48:24.37	0.00	0.00	61.91	0.06	-0.24	7.50 0111000000110000
6534:48:24.27	0.00	0.00	60.54	0.06	-0.24	7.50 0111000000110000
6534:48:24.17	0.00	0.00	62.43	0.06	-0.24	7.49 0111000000110000
6534:48:24.07	0.00	0.00	62.23	0.06	-0.24	7.48 0111000000110000
6534:48:23.97	0.00	0.00	63.54	0.06	-0.24	7.47 0111000000110000
6534:48:23.87	0.00	0.00	65.05	0.06	-0.24	7.47 0111000000110000

	0.00	0.00	65.04	0.06	-0.24	7.46 0111000000110000
6534:48:23.7 7	0.00	0.00	61.90	0.06	-0.24	7.45 0111000000110000
6534:48:23.6 7	0.00	0.00	62.96	0.06	-0.24	7.44 0111000000110000
6534:48:23.5 7	0.00	0.00	62.88	0.06	-0.24	7.44 0111000000110000
6534:48:23.4 7	0.00	0.00	61.66	0.06	-0.24	7.43 0111000000110000
6534:48:23.3 7	0.00	0.00	61.66	0.06	-0.24	7.42 0111000000110000
6534:48:23.2 7	0.00	0.00	61.58	0.06	-0.24	7.41 0111000000110000
6534:48:23.1 7	0.00	0.00	59.57	0.06	-0.24	7.41 0111000000110000
6534:48:23.0 7	0.00	0.00	61.99	0.06	-0.24	7.40 0111000000110000
6534:48:22.9 7	0.00	0.00	63.01	0.06	-0.24	7.39 0111000000110000
6534:48:22.8 7	0.00	0.00	63.51	0.06	-0.24	0.00 0111000000100000
6534:48:22.7 1	0.00	0.00	63.66	6.63	-49.85	0.00 0111000000110000
6534:48:22.6 4	0.00	0.00	55.25	6.63	-49.85	0.00 0111000000110000
6534:48:22.5 4	0.00	0.00	59.67	6.59	-49.73	0.00 0111000000110000
6534:48:22.4 4	0.00	0.00	58.06	6.59	49.61	0.00 0111000000110000
6534:48:22.3 4	0.00	0.00	56.54	6.02	44.52	0.00 0111000000100010
6534:48:22.2 4	0.00	0.00	59.16	0.03	-0.24	0.00 0111000000100010
6534:48:22.1 4	0.00	0.00	63.03	0.03	-0.24	0.00 0111000000100010
6534:48:22.0 4	0.00	0.00	61.58	0.00	0.00	0.00 0111000000110000
6534:48:21.9 4	0.00	0.00	59.77	0.00	0.00	0.00 0111000000110000
6534:48:21.8 4	0.00	0.00	53.49	0.00	0.00	0.00 0111000000110000
6534:48:21.7 4						

ENGINE EXCEEDANCES

4

EXCEED NO.	PEAK	TIME STAMP (H:M:S.T)	(H:M:S.T)	TYPE

Deec Serial Number	Download Count	Date/Time
045-CF0149	110	12/19/13 09:44

Total Number of N1 Exceedances = 0

N1 %

DURATION

Deec Serial Number	Download Count	Date/Time
045-CF0149	110	12/19/13 09:44

Total Number of N2 Exceedances = 0

N2 %

Deec Serial Number	Download Count	Date/Time
045-CF0149	110	12/19/13 09:44

Total Number of ITT Exceedances = 0

ITT degC

N1/N2 MAJOR SPEED CYCLES

BIN NO.	(%)	SPEED CYCLES	N2 SPEED (%)	MAJOR SPEED CYCLES
	100.00	0	100.00	0
27	99.81	0	99.89	0
26	99.52	0	99.73	0
25	99.24	0	99.41	2
24	98.90	0	99.09	1
23	98.57	0	98.78	1
22	98.18	0	98.46	4
21	97.76	0	98.01	7
20	97.30	2	97.67	6
19	96.81	3	97.19	2
18	96.29	7	96.71	2
17	95.72	5	96.24	0
16	95.13	2	95.76	0
15	94.50	3	95.28	0
14	93.85	3	94.81	0
13	93.14	0	94.33	0
12	92.21	0	93.85	0
11	91.22	0	93.38	0
10	89.06	0	92.90	0
09	87.60	0	92.50	0
08	86.64	0	92.27	0
07	83.96	0	91.79	0
06	81.00	0	91.23	0
05	77.76	0	90.52	0
04	74.22	0	89.88	0
03	70.38	0	88.61	0
02	66.22	0	86.23	0
01				

N1 SPEED

MAJOR

N1/N2 MAJOR THRUST REVERSOR SPEED CYCLES

	SPEED	N2 SPEED	MAJOR SPEED

BIN NO.	(%)	CYCLES	(%)	CYCLES
	100.87	0	100.51	0
16	100.00	0	100.00	0
15	99.08	0	99.45	0
14	98.10	0	98.87	0
13	97.06	0	98.25	0
12	95.92	0	97.58	0
11	94.69	0	96.85	1
10	93.34	0	96.04	1
09	91.84	0	95.15	1
08	90.15	0	94.15	1
07	88.21	2	93.00	2
06	85.91	0	91.63	1
05	83.07	0	89.94	0
04	79.29	1	87.70	0
03	73.39	3	84.19	7
02	21.00	28	46.00	20
01				

N1 MINOR SPEED BINS

Maximum N1 Speed (%)	BIN COUNT															
100.87																
100.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
95.92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
94.69	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	0
93.34	0	0	0	0	0	0	0	1	0	0	0	0	0	7	12	0
91.84	0	0	0	0	0	0	0	0	0	1	0	0	0	3	6	0
90.15	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	0
88.21	0	0	0	0	0	0	0	0	0	0	1	0	0	5	0	0
85.91	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
83.07	0	0	0	2	0	0	0	0	0	0	0	0	1	2	0	0
79.29	0	0	0	2	0	2	2	1	1	0	1	2	4	0	0	0
73.39	0	0	0	3	4	5	2	3	2	1	6	13	2	0	0	0
21.00	0	0	1	26	10	47	15	19	25	21	23	19	0	0	0	0
		25.57	26.57	28.23	30.55	33.55	37.20	41.52	46.50	52.15	58.47	65.44	73.09	81.89	90.86	100.00

Minimum N1 Speed (%)

N2 MINOR SPEED BINS
24.00

Maximum N2 Speed (%)	BIN COUNT															
100.51																
100.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
98.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
97.58	1	0	0	0	0	0	0	0	1	0	1	1	0	1	9	0
96.85	0	0	0	0	0	0	0	1	0	0	0	0	0	0	10	0
96.04	1	0	1	1	0	0	0	0	0	0	0	0	0	3	6	0
95.15	0	0	0	0	0	0	0	0	0	1	0	1	1	7	2	0
94.15	0	0	0	0	0	0	0	0	0	2	0	0	1	8	0	0

93.00	0	0	0	0	2	0	1	0	0	0	0	0	14	0	0
91.63	3	0	0	1	1	1	0	2	0	1	1	1	11	0	0
89.94	1	0	1	1	2	1	1	1	1	0	2	2	10	0	0
87.70	1	0	1	0	1	1	1	0	3	2	2	6	9	0	0
84.19	0	1	0	0	0	1	6	3	2	4	11	38	45	0	0
46.00	3	5	20	24	9	11	34	73	20	35	64	41	33	0	0
	55.78	56.37	57.36	58.74	60.52	62.69	65.26	68.22	71.57	75.32	79.47	84.01	88.95	94.28	100.00

Minimum N2 Speed (%)

ITT PEAK/AVERAGE TEMPERATURE

BIN NO.	deg C	ITT (30 second average)	ITT (peak)
62		0	
61	1030 to <1035	0	
60	above 1035	0	0
59	1025 to <1030	0	0
58	1020 to <1025	0	0
57	1015 to <1020	0	0
56	1010 to <1015	0	0
55	1005 to <1010	0	0
54	1000 to <1005	0	0
53	995 to <1000	0	0
52	990 to <995	0	0
51	985 to <990	0	0
50	980 to <985	0	0
49	975 to <980	0	0
48	970 to <975	0	0
47	965 to <970	0	0
46	960 to <965	0	0
45	955 to <960	0	0
44	950 to <955	0	0
43	945 to <950	0	0
42	940 to <945	0	0
41	935 to <940	0	0
40	930 to <935	0	0
39	925 to <930	0	0
38	920 to <925	0	0
37	915 to <920	0	0
36	910 to <915	0	0
35	905 to <910	0	0
34	900 to <905	0	0
33	895 to <900	0	0
32	890 to <895	0	0
31	885 to <890	0	0
30	880 to <885	0	0
29	875 to <880	0	0
28	870 to <875	0	0
27	865 to <870	1	0
26	860 to <865	0	0
25	855 to <860	0	0
24	850 to <855	4	0
23	845 to <850		1
22	840 to <845		1
21	835 to <840		1
	830 to <835		2

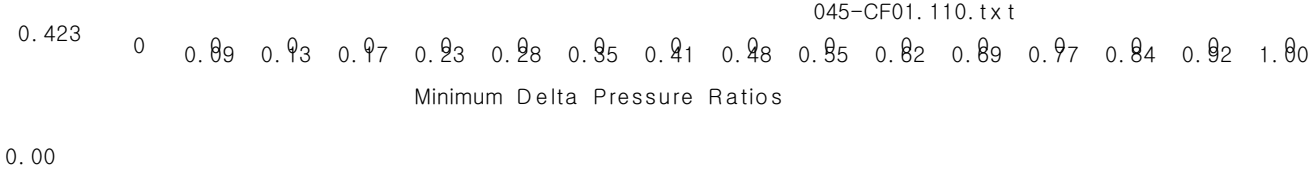
```
                                                 8
                                                17
                                                74
 20                                             80
 19        825 to <830                         135        3
 18        820 to <825                         143        4
 17        815 to <820                         223        3
 16        810 to <815                         133        5
 15        805 to <810                          78        3
 14        800 to <805                          99        2
 13        795 to <800                          82        0
 12        790 to <795                          90        0
 11        785 to <790                          71        0
 10        780 to <785                         179        0
 09        775 to <780                         155        0
 08        770 to <775                         121        0
 07        765 to <770                         233        0
 06        760 to <765                         141        0
 05        755 to <760                         167        0
 04        750 to <755                        2093        0
 03        745 to <750                                    0
 02        740 to <745                                    0
 01        735 to <740                                    0
ITT MINOR BINS
Maximum    270 to <735                     BIN COUNT      0
ITT (degC)                                                1
          0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0              0
 1050  0       0       0       0       0       0       0
0         0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0    0         0
1025   0       0       0       0       0       0
0         0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0    0         0
1000   0       0       0       0       0
0         0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0    0         0
       0       0       0       0
0
975       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0    0         0
       0       0       0
0
950       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0    0         0
       0       0
0
925       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0    0         0
       0
0
900       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0    0         0
0
875       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0    0         0
          0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       2       2
850       0       0       0       0       0       0       0       0       0       0       0       0       1       1       4      22      13    0
825       0       0       1       0       0       0       0       0       0       0       0       0       1       6       7       5            0
800       0       0       0       0       0       0       0       0       0       1       0       0       2       9       5
775       1       0       0       1       0       0       0       0       0       0       0       2       3       6
750       3       0       1       1       0       0       0       0       0       0       0       4       4
725       7       1       2       1       1       0       0       1       2       5      10       3
700       4       3       9       2       4       0       2       2       3      11       4
675       3       8      13      11       4       2       4      18      12      10
650       1       5       9      10       5       1       9      30      15
625       0       2       6       9       3       4      16      10
600       1       2       6       7       8      19      11
575       0       1       8      15      15       9
550       0       1       9      33      19
525       1       3      29      41
500
475
```

PLA USAGE PROFILE

BIN NO.	DEGREES	PLA BINS (5 second peak)
01		
02		
03	20 to <26	
04	26 to <30	4262
05	30 to <40	0
06	40 to <50	115
07	50 to <60	597
08	60 to <70	1169
09	70 to <74	967
10	74 to <77	820
11	77 to <80	870
12	80 to <83	1025
13	83 to <86	1073
14	86 to <89	1232
15	89 to <92	1710
16	92 to <95	2338
17	95 to <98	2535
18	98 to <102	639
19	102 to <105	845
20	105 to <108	3038
21	108 to <110	1949
22	110 to <113	
23	113 to <117	464
24	117 to <123	202
	above 123	89

PLENUM DELTA PRESSURE CYCLES

Maximum Delta Pressure Ratios	BIN COUNT															
1.027	66	1	0	0	0	0	0	0	0	2	22	11	7	12	10	354
1.000	2	0	0	0	0	0	0	0	0	0	2	0	1	0	4	0
0.972	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0
0.944	4	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0
0.914	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
0.884	4	1	0	0	0	0	0	0	0	0	2	0	0	4	0	0
0.853	2	4	0	0	0	0	0	0	0	0	2	2	1	0	0	0
0.820	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0
0.787	4	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0
0.751	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0
0.714	0	0	0	0	0	0	0	0	0	0	11	1	0	0	0	0
0.673	17	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
0.630	10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
0.581	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.522	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0


0.423
0
0.09
0.13
0.17
0.23
0.28
0.35
0.41
0.48
0.55
0.62
0.69
0.77
0.84
0.92
1.00
Minimum Delta Pressure Ratios
0.00

Appendix K
N1 DEEC Data File Chronology, Left Engine P-74717
(4 Pages)

DATA FILE CHRONOLOGY

TFE731 TURBOFAN ENGINES Honeywell E&S

Engine Serial Number
074717

DEEC Serial Number	Download Count	Date/Time
045-CF0149	110	12/19/13 09:44

DEEC TIME STAMP (H:M:S.T)	ELAPSED TIME (H:M:S.T)	EVENT
6534:49:21.2	0:11:21.6	Slow Scan 2 end Manual Mode Transfer event
6534:48:32.5	0:10:32.9	Fast Scan 2 end Manual Mode Transfer event
6534:48:26.6	0:10:27.0	Slow Scan 2 begin Manual Mode Transfer event
6534:48:22.5	0:10:22.9	Aircraft Take Off
		Landing without Shutdown
6534:48:21.8	0:10:22.2	Manual Mode Transfer
6534:48:21.8	0:10:22.2	Fault number 38
6534:48:21.7	0:10:22.1	Fault number 211
6534:48:21.7	0:10:22.1	Fast Scan 2 begin Manual Mode Transfer event
6534:48:21.6	0:10:22.0	Fault number 26
6534:48:21.6	0:10:22.0	Fault number 237
6534:48:21.6	0:10:22.0	Fault number 237
6534:47:21.9	0:09:22.3	Manual Mode Transfer
6534:47:21.9	0:09:22.3	Fault number 237
6534:47:21.8	0:09:22.2	Fault number 43
6534:46:40.1	0:08:40.5	Aircraft Take Off
6534:37:59.6		Engine Start
Flight Number 26 Start		
Flight Number 25 End		
6532:46:09.1	3:24:33.1	Engine Rolldown
6529:33:39.9	0:12:03.9	Engine Cruise Performance
6529:23:26.7	0:01:50.7	Aircraft Take Off
6529:21:36.0		Engine Start
Flight Number 25 Start		
Flight Number 24 End		
6529:04:21.8	2:04:08.5	Engine Rolldown
6527:14:31.3	0:14:18.0	Engine Cruise Performance
6527:03:25.9	0:03:12.6	Aircraft Take Off
6527:00:13.3		Engine Start
Flight Number 24 Start		
Flight Number 23 End		
6526:51:58.0	2:03:37.1	Engine Rolldown
6525:01:09.0	0:12:48.1	Engine Cruise Performance
6524:55:19.4	0:06:58.5	Aircraft Take Off
6524:48:20.9		Engine Start
Flight Number 23 Start		
Flight Number 22 End		
6524:24:11.6	3:47:47.0	Engine Rolldown
6520:44:41.3	0:08:16.7	Engine Cruise Performance
6520:41:41.1	0:05:16.5	Aircraft Take Off
6520:36:24.6		Engine Start
Flight Number 22 Start		
Flight Number 21 End		
		Engine Rolldown
6517:15:22.3	0:11:22.7	Engine Cruise Performance

DATA FILE CHRONOLOGY

Engine Serial Number
074717

DEEC TIME STAMP (H:M:S.T)	ELAPSED TIME (H:M:S.T)	EVENT
6517:11:59.3	0:07:59.7	Aircraft Take Off
6517:03:59.6		Engine Start
Flight Number 21 Start		
Flight Number 20 End		
6512:56:10.2	1:14:04.1	Engine Rolldown
6511:56:26.0	0:14:19.9	Engine Cruise Performance
6511:48:18.1	0:06:12.0	Aircraft Take Off
6511:42:06.1		Engine Start
Flight Number 20 Start		
Flight Number 19 End		
6511:05:36.5	1:32:49.2	Engine Rolldown
6509:46:27.4	0:13:40.1	Engine Cruise Performance
6509:42:36.5	0:09:49.2	Aircraft Take Off
6509:32:47.3		Engine Start
Flight Number 19 Start		
Flight Number 18 End		
6508:21:05.7	0:43:45.4	Engine Rolldown
6507:52:36.9	0:15:16.6	Engine Cruise Performance
6507:45:27.2	0:08:06.9	Aircraft Take Off
6507:37:20.3		Engine Start
Flight Number 18 Start		
Flight Number 17 End		
6507:35:00.0	0:41:03.7	Engine Rolldown
6507:06:13.3	0:12:17.0	Engine Cruise Performance
6507:01:02.2	0:07:05.9	Aircraft Take Off
6506:53:56.3		Engine Start
Flight Number 17 Start		
Flight Number 16 End		
6506:33:45.1	0:40:37.3	Engine Rolldown
6505:57:49.6	0:04:41.8	Engine Cruise Performance
6505:54:49.4	0:01:41.6	Aircraft Take Off
6505:53:07.8		Engine Start
Flight Number 16 Start		
Flight Number 15 End		
6505:47:53.5	0:44:16.7	Engine Rolldown
6505:23:38.3	0:20:01.5	Engine Cruise Performance
6505:16:18.1	0:12:41.3	Aircraft Take Off
6505:03:36.8		Engine Start
Flight Number 15 Start		
Flight Number 14 End		
		Engine Rolldown
6500:55:49.8	0:12:16.1	Engine Cruise Performance
6500:46:07.4	0:02:33.7	Aircraft Take Off
6500:43:33.7		Engine Start
Flight Number 14 Start		

DATA FILE CHRONOLOGY

Engine Serial Number
074717

DEEC TIME STAMP (H:M:S.T)	ELAPSED TIME (H:M:S.T)	EVENT
Flight Number 13 End		
6500:34:10.9	2:08:14.5	Engine Rolldown
6498:45:31.6	0:19:35.2	Engine Cruise Performance
6498:32:25.3	0:06:28.9	Aircraft Take Off
6498:25:56.4		Engine Start
Flight Number 13 Start		
Flight Number 12 End		
6497:49:33.4	1:08:04.8	Engine Rolldown
6497:49:33.4	1:08:04.8	Fault number 242
6496:48:33.5	0:07:04.9	Engine Cruise Performance
6496:45:33.3	0:04:04.7	Aircraft Take Off
6496:41:28.6		Engine Start
Flight Number 12 Start		
Flight Number 11 End		
6495:34:46.4	1:04:08.6	Engine Rolldown
6494:40:49.2	0:10:11.4	Engine Cruise Performance
6494:35:15.9	0:04:38.1	Aircraft Take Off
6494:30:37.8		Engine Start
Flight Number 11 Start		
Flight Number 10 End		
6494:18:54.5	1:04:32.0	Engine Rolldown
6493:24:19.4	0:09:56.9	Engine Cruise Performance
6493:20:18.0	0:05:55.5	Aircraft Take Off
6493:14:22.5		Engine Start
Flight Number 10 Start		
Flight Number 9 End		
6482:22:01.5	1:17:29.5	Engine Rolldown
6481:15:21.6	0:10:49.6	Engine Cruise Performance
6481:12:21.4	0:07:49.4	Aircraft Take Off
6481:04:32.0		Engine Start
Flight Number 9 Start		
Flight Number 8 End		
6480:45:05.4	1:22:05.8	Engine Rolldown
6479:33:31.3	0:10:31.7	Engine Cruise Performance
6479:30:31.1	0:07:31.5	Aircraft Take Off
6479:22:59.6		Engine Start
Flight Number 8 Start		
Ground Run Number 1 End		
6477:42:08.1	0:00:00.9	Engine Rolldown
6477:42:07.2		Engine Start
Ground Run Number 1 Start		
Flight Number 7 End		
		Engine Rolldown
6476:35:55.0	0:08:41.6	Aircraft Take Off
6476:27:13.4		Engine Start
Flight Number 7 Start		

DATA FILE CHRONOLOGY

Engine Serial Number
074717

DEEC TIME STAMP (H:M:S.T)	ELAPSED TIME (H:M:S.T)	EVENT
Flight Number 6 End		
6475:12:20.6	0:54:40.0	Engine Rolldown
6474:25:25.3	0:07:44.7	Aircraft Take Off
6474:17:40.6		Engine Start
Flight Number 6 Start		
Flight Number 5 End		
6474:14:19.3	0:53:43.0	Engine Rolldown
6473:42:21.6	0:21:45.3	Engine Cruise Performance
6473:30:53.0	0:10:16.7	Aircraft Take Off
6473:20:36.3		Engine Start
Flight Number 5 Start		
Flight Number 4 End		
6472:58:25.7	1:09:12.0	Engine Rolldown
6472:05:07.3	0:15:53.6	Engine Cruise Performance
6471:55:32.9	0:06:19.2	Aircraft Take Off
6471:49:13.7		Engine Start
Flight Number 4 Start		
Flight Number 3 End		
6471:20:54.0	1:10:22.3	Engine Rolldown
6470:23:19.6	0:12:47.9	Engine Cruise Performance
6470:17:15.3	0:06:43.6	Aircraft Take Off
6470:10:31.7		Engine Start
Flight Number 3 Start		
Flight Number 2 End		
6468:15:46.2	0:29:24.6	Engine Rolldown
6467:56:31.4	0:10:09.8	Engine Cruise Performance
6467:53:31.2	0:07:09.6	Aircraft Take Off
6467:46:21.6		Engine Start
Flight Number 2 Start		
Flight Number 1 End		
		Engine Rolldown
6467:19:56.5	0:07:59.3	Engine Cruise Performance
6467:16:56.3	0:04:59.1	Aircraft Take Off
6467:11:57.2		Engine Start
Flight Number 1 Start		

Appendix L

N1 DEEC Data File Chronology, Right Engine P-74715

(4 Pages)

DATA FILE CHRONOLOGY

TFE731 TURBOFAN ENGINES Honeywell E&S

Engine Serial Number
074715

DEEC Serial Number	Download Count	Date/Time
045-CF0152	47	12/19/13 09:39

DEEC TIME STAMP (H:M:S.T)	ELAPSED TIME (H:M:S.T)	EVENT
6564:30:57.2	0:11:20.2	Slow Scan 2 end Manual Mode Transfer event
6564:30:08.1	0:10:31.1	Fast Scan 2 end Manual Mode Transfer event
6564:30:02.2	0:10:25.2	Slow Scan 2 begin Manual Mode Transfer event
6564:29:58.2	0:10:21.2	Fault number 237
6564:29:58.1	0:10:21.1	Aircraft Take Off
		Landing without Shutdown
6564:29:57.4	0:10:20.4	Manual Mode Transfer
6564:29:57.4	0:10:20.4	Fault number 38
6564:29:57.3	0:10:20.3	Fault number 211
6564:29:57.3	0:10:20.3	Fast Scan 2 begin Manual Mode Transfer event
6564:29:57.2	0:10:20.2	Fault number 26
6564:28:44.5	0:09:07.5	Aircraft Take Off
6564:19:37.0		Engine Start
Flight Number 26 Start		
Flight Number 25 End		
6562:21:51.9	3:29:35.5	Engine Rolldown
6559:09:07.6	0:16:51.2	Engine Cruise Performance
6559:05:31.6	0:13:15.2	Aircraft Take Off
6558:52:16.4		Engine Start
Flight Number 25 Start		
Flight Number 24 End		
6558:44:08.7	2:07:25.5	Engine Rolldown
6556:48:30.3	0:11:47.1	Engine Cruise Performance
6556:45:30.1	0:08:46.9	Aircraft Take Off
6556:36:43.2		Engine Start
Flight Number 24 Start		
Ground Run Number 3 End		
6556:35:57.5	0:00:00.9	Engine Rolldown
6556:35:56.6		Engine Start
Ground Run Number 3 Start		
Flight Number 23 End		
6556:35:29.4	2:06:02.4	Engine Rolldown
6554:41:44.8	0:12:17.8	Engine Cruise Performance
6554:36:55.5	0:07:28.5	Aircraft Take Off
6554:29:27.0		Engine Start
Flight Number 23 Start		
Flight Number 22 End		
		Engine Rolldown
6550:26:16.7	0:12:50.2	Engine Cruise Performance
6550:23:16.5	0:09:50.0	Aircraft Take Off
6550:13:26.5		Engine Start
Flight Number 22 Start		
Flight Number 21 End		

DATA FILE CHRONOLOGY

Engine Serial Number
074715

DEEC TIME STAMP (H:M:S.T)	ELAPSED TIME (H:M:S.T)	EVENT
6549:52:46.9	3:24:15.5	Engine Rolldown
6546:57:58.9	0:29:27.5	Engine Cruise Performance
6546:53:35.8	0:25:04.4	Aircraft Take Off
6546:28:31.4		Engine Start
Flight Number 21 Start		
Flight Number 20 End		
6542:41:28.6	1:27:33.6	Engine Rolldown
6541:35:41.7	0:21:46.7	Engine Cruise Performance
6541:29:54.5	0:15:59.5	Aircraft Take Off
6541:13:55.0		Engine Start
Flight Number 20 Start		
Flight Number 19 End		
6540:53:30.1	1:39:44.5	Engine Rolldown
6539:28:08.9	0:14:23.3	Engine Cruise Performance
6539:24:13.5	0:10:27.9	Aircraft Take Off
6539:13:45.6		Engine Start
Flight Number 19 Start		
Flight Number 18 End		
6538:05:29.6	0:47:36.6	Engine Rolldown
6537:34:12.2	0:16:19.2	Engine Cruise Performance
6537:27:01.6	0:09:08.6	Aircraft Take Off
6537:17:53.0		Engine Start
Flight Number 18 Start		
Flight Number 17 End		
6537:17:28.8	0:44:39.1	Engine Rolldown
6536:46:32.0	0:13:42.3	Engine Cruise Performance
6536:41:20.9	0:08:31.2	Aircraft Take Off
6536:32:49.7		Engine Start
Flight Number 17 Start		
Flight Number 16 End		
6536:16:12.2	0:47:02.2	Engine Rolldown
6535:38:06.9	0:08:56.9	Engine Cruise Performance
6535:35:06.7	0:05:56.7	Aircraft Take Off
6535:29:10.0		Engine Start
Flight Number 16 Start		
Flight Number 15 End		
6535:28:11.4	0:43:06.5	Engine Rolldown
6535:05:43.3	0:20:38.4	Engine Cruise Performance
6534:58:18.5	0:13:13.6	Aircraft Take Off
6534:45:04.9		Engine Start
Flight Number 15 Start		
Flight Number 14 End		
		Engine Rolldown
6530:37:49.0	0:15:34.9	Engine Cruise Performance
6530:28:06.8	0:05:52.7	Aircraft Take Off
6530:22:14.1		Engine Start
Flight Number 14 Start		

DATA FILE CHRONOLOGY

Engine Serial Number
074715

DEEC TIME STAMP (H:M:S.T)	ELAPSED TIME (H:M:S.T)	EVENT
Flight Number 13 End		
6530:16:10.9	2:06:14.4	Engine Rolldown
6528:29:54.7	0:19:58.2	Engine Cruise Performance
6528:17:01.8	0:07:05.3	Aircraft Take Off
6528:09:56.5		Engine Start
Flight Number 13 Start		
Flight Number 12 End		
6527:34:10.1	1:21:24.7	Engine Rolldown
6526:31:48.7	0:19:03.3	Engine Cruise Performance
6526:27:09.9	0:14:24.5	Aircraft Take Off
6526:12:45.4		Engine Start
Flight Number 12 Start		
Flight Number 11 End		
6525:19:05.2	1:11:44.2	Engine Rolldown
6524:22:34.6	0:15:13.6	Engine Cruise Performance
6524:16:51.3	0:09:30.3	Aircraft Take Off
6524:07:21.0		Engine Start
Flight Number 11 Start		
Flight Number 10 End		
6524:00:31.4	1:04:24.0	Engine Rolldown
6523:10:24.9	0:14:17.5	Engine Cruise Performance
6523:02:42.1	0:06:34.7	Aircraft Take Off
6522:56:07.4		Engine Start
Flight Number 10 Start		
Flight Number 9 End		
6512:06:31.1	1:22:41.1	Engine Rolldown
6510:55:16.8	0:11:26.8	Engine Cruise Performance
6510:52:16.6	0:08:26.6	Aircraft Take Off
6510:43:50.0		Engine Start
Flight Number 9 Start		
Flight Number 8 End		
6510:27:59.2	1:25:38.1	Engine Rolldown
6509:13:26.5	0:11:05.4	Engine Cruise Performance
6509:10:26.3	0:08:05.2	Aircraft Take Off
6509:02:21.1		Engine Start
Flight Number 8 Start		
Ground Run Number 2 End		
6507:22:03.0	0:00:00.9	Engine Rolldown
6507:22:02.1		Engine Start
Ground Run Number 2 Start		
Flight Number 7 End		
		Engine Rolldown
6506:16:30.5	0:13:57.1	Aircraft Take Off
6506:02:33.4		Engine Start
Flight Number 7 Start		

DATA FILE CHRONOLOGY

Engine Serial Number
074715

DEEC TIME STAMP (H:M:S.T)	ELAPSED TIME (H:M:S.T)	EVENT
Flight Number 6 End		
6504:56:56.7	0:59:10.2	Engine Rolldown
6504:10:47.2	0:13:00.7	Engine Cruise Performance
6504:05:59.0	0:08:12.5	Aircraft Take Off
6503:57:46.5		Engine Start
Flight Number 6 Start		
Flight Number 5 End		
6503:56:55.9	0:56:21.2	Engine Rolldown
6503:17:06.0	0:16:31.3	Engine Cruise Performance
6503:11:26.8	0:10:52.1	Aircraft Take Off
6503:00:34.7		Engine Start
Flight Number 5 Start		
Flight Number 4 End		
6502:41:33.7	1:12:14.4	Engine Rolldown
6501:39:06.1	0:09:46.8	Engine Cruise Performance
6501:36:05.9	0:06:46.6	Aircraft Take Off
6501:29:19.3		Engine Start
Flight Number 4 Start		
Flight Number 3 End		
6501:02:56.2	1:12:23.3	Engine Rolldown
6500:19:49.3	0:29:16.4	Engine Cruise Performance
6499:57:48.8	0:07:15.9	Aircraft Take Off
6499:50:32.9		Engine Start
Flight Number 3 Start		
Flight Number 2 End		
6497:56:55.4	0:30:26.9	Engine Rolldown
6497:38:56.0	0:12:27.5	Engine Cruise Performance
6497:34:04.3	0:07:35.8	Aircraft Take Off
6497:26:28.5		Engine Start
Flight Number 2 Start		
Ground Run Number 1 End		
6497:20:54.6	0:00:00.9	Engine Rolldown
6497:20:53.7		Engine Start
Ground Run Number 1 Start		
Flight Number 1 End		
		Engine Rolldown
6497:00:01.4	0:08:33.1	Engine Cruise Performance
6496:57:01.2	0:05:32.9	Aircraft Take Off
6496:51:28.3		Engine Start
Flight Number 1 Start		

Appendix M
N1 DEEC Fault History, Left Engine P-74717
(1 Page)

ENGINE FAULT HISTORY

TFE731 TURBOFAN ENGINES Honeywell E&S

Engine Serial Number
074717

DEEC Serial Number	Download Count	Date/Time
045-CF0149	110	12/19/13 09:44

NO.	TIME STAMP (H:M:S.T)	FAULT SEVERITY CODE	FAULT CODE	LRU	FAULT DESCRIPTION
Deec Serial Number		Download Count	Date/Time		
Total Number of Faults = 8					
1	6534:48:21.8	4	38	TT2	TT2 Short Circuit (TT2 < 190 ohms)
2	6534:48:21.7	4	211	FCU	Fuel Control PLA Circuit Failure
3	6534:48:21.6	2	26	ITT	ITT thermocouple circuit open Circuit fail, Defaults to 260 C
4	6534:48:21.6	2	237	NOTICE	ECTM Data buffers filled. Download Required to prevent data loss.
5	6534:48:21.6	2	237	NOTICE	ECTM Data buffers filled. Download Required to prevent data loss.
6	6534:47:21.9	2	237	NOTICE	ECTM Data buffers filled. Download Required to prevent data loss.
7	6534:47:21.8	4	43	DEEC/	Total Pressure rate change fail
8	6497:49:33.4	1	242	DEEC	ECTM data checksum failed. Download ECTM data as soon as possible

Appendix N

N1 DEEC Fault History, Right Engine P-74715

(1 Page)

ENGINE FAULT HISTORY

TFE731 TURBOFAN ENGINES Honeywell E&S

Engine Serial Number
074715

DEEC Serial Number	Download Count	Date/Time
045-CF0152	47	12/19/13 09:39

NO.	TIME STAMP (H:M:S.T)	FAULT SEVERITY CODE	FAULT CODE	LRU	FAULT DESCRIPTION
Deec Serial Number		Download Count	Date/Time		
045-CF0152		47	12/19/13 09:39		
Total Number of Faults = 4					
1	6564:29:58.2	2	237	NOTICE	ECTM Data buffers filled. Download Required to prevent data loss.
2	6564:29:57.4	4	38	TT2	TT2 Short Circuit (TT2 < 190 ohms)
3	6564:29:57.3	4	211	FCU	Fuel Control PLA Circuit Failure
4	6564:29:57.2	2	26	ITT	ITT thermocouple circuit open

Appendix O

Plots of All Data Parameters, Left and Right Engines, 1-512 Seconds with 9 Second Alignment Adjustment

(1 page)

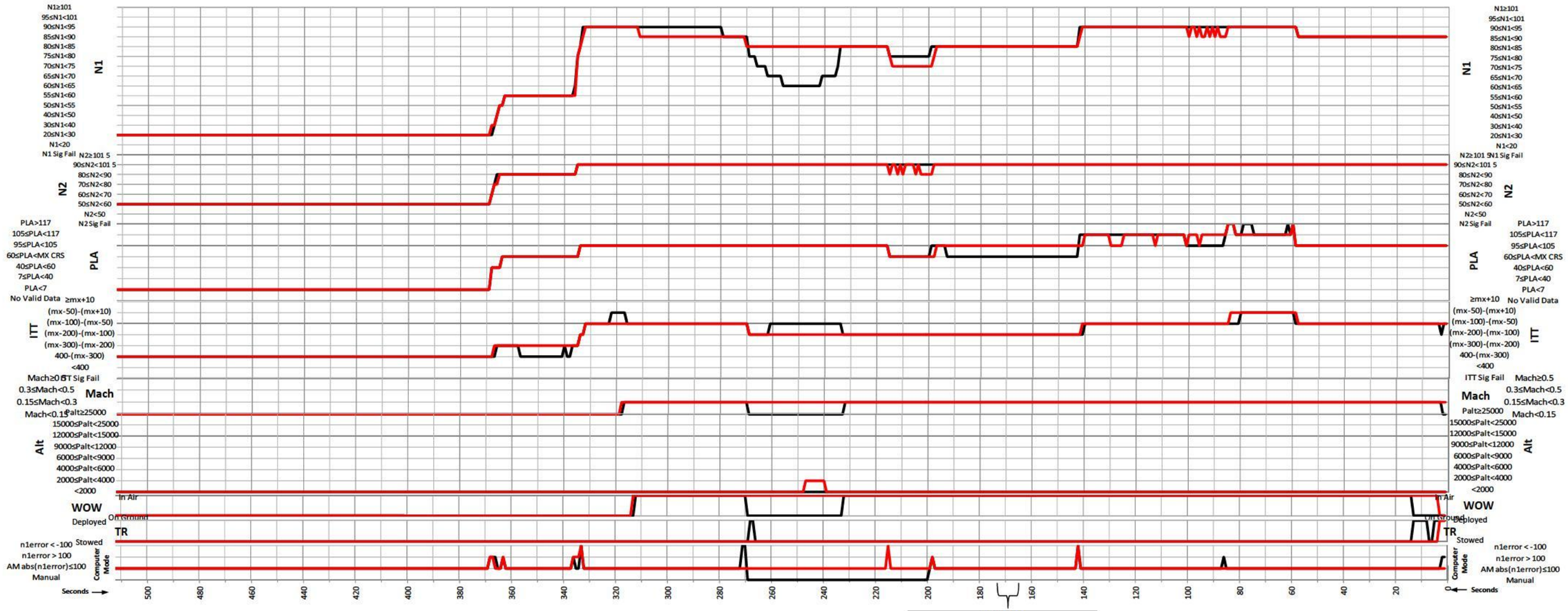
AirEvac, Learjet 35A, XA-USD

Ft Lauderdale, FL, November 19, 2013

1-512 Seconds of Data (with 9 second correction)

P74717 Eng 1: Left Engine S/N

P74715 Eng 2: Right Engine S/N



164-172
Time area where 9 seconds of duplicate data is added for correction to left engine data.

Appendix P

Plots of All Data Parameters, Left and Right Engines,
161-373 Seconds with 9 Second Alignment Adjustment

(1 page)

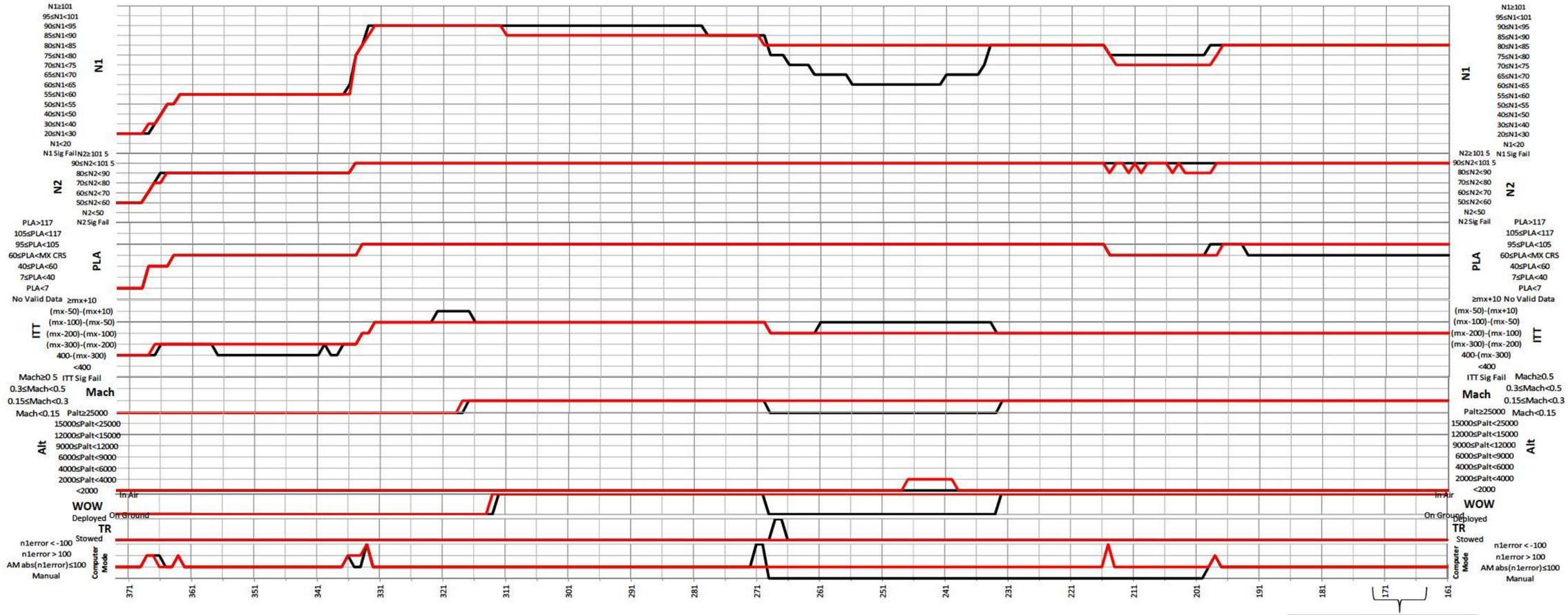
AirEvac, Learjet 35A, XA-USD

Ft Lauderdale, FL, November 19, 2013

161-373 Seconds of Data (with 9 second correction)

P74717 Eng 1: Left Engine S/N

P74715 Eng 2: Right Engine S/N



164-172
Time area where 9 seconds of duplicate data is added for correction to left engine data.

Appendix Q
NTSB Email Confirmation of Unit Serial Numbers
(1 page)

[redacted]

[redacted]

I confirm your labelling.

Thus, the labelling relationship:

NTSB#A = Unit Serial Number 45-CF0149
NTSB#B = Unit Serial Number 45-CF0152

Thanks for the photos and working with me to resolve this issue.

[redacted]

[redacted]

Got the units in this morning. Got them out of the boxes and initial rinse completed.

Attached are two photos in which I have placed a label which, based on [redacted] email, should be identified correctly. [redacted] please confirm the photos with the ID labels are correct.

[redacted]