

24.07.14  
 PC MHC ( "SAPPI" "BPEZDAI" "YIPCY" "TONKCY" "FACEBET" / "COKIS TMA-12M" / "COKIS TMA-12M")  
 Сфера полета

Идентификация	5725 / 5125 / 4405 / 1117 / 1132 / 121 / 37	Имя полета	57P	58:55:59	Имя полета	57P	58:55:59
Сфера полета	121 / 37	Имя полета	1702	20:57:52	Имя полета	1702	20:54:11
Сфера полета	204	Имя полета	58:54:57		Имя полета		
	58702 / 1702 / 1	ТОРС	04:25:00 - 08:25:00	Имя полета	58:54:58		

ПРОЦЕСС ВРЕМЯ  
 Имя полета: 58:54:58  
 Имя полета: 58:54:58

ИТЭ "Спейс-1" / "СМ"  
 ПУСК ПРОГРАММЫ "ФАКЕТ"  
 на участке обслуживания  
 24 июля 2014 г.

08:04:00	Сигнал
08:05:00	Сигнал
08:07:00	Сигнал
08:08:00	Сигнал
08:09:00	Сигнал
08:10:00	Сигнал

ИЗМЕНЕНИЯ ПОСЛЕДОВАТЕЛЬНОСТИ  
 КОМПОНЕНТОВ ПУСКОВОГО КОМПЛЕКСА



ИТЭ "Спейс-1" / "СМ"  
 Параметры полета  
 Скорость: 7800 м/с  
 Высота: 200 км  
 Радиус: 6378 км

ИТЭ "Спейс-1" / "СМ"  
 Структурная схема

**Russian Flight Control Room**  
 Korolev, Russia

1  
00:00:02,310 --> 00:00:01,350  
six

2  
00:00:03,270 --> 00:00:02,320  
five

3  
00:00:04,390 --> 00:00:03,280  
four

4  
00:00:05,430 --> 00:00:04,400  
three

5  
00:00:15,509 --> 00:00:05,440  
two

6  
00:00:20,070 --> 00:00:18,230  
and there you see progress 56 lifting

7  
00:00:22,710 --> 00:00:20,080  
off from the baikonur cosmodrome in

8  
00:00:24,630 --> 00:00:22,720  
kazakhstan in kazakhstan on its way to

9  
00:00:26,230 --> 00:00:24,640  
the international space station for a

10  
00:00:37,590 --> 00:00:26,240  
docking to the piers

11  
00:00:37,600 --> 00:00:41,670  
everything uh proceeding nominally

12  
00:00:48,549 --> 00:00:44,310  
structural parameters of the carrier we

13  
00:01:07,990 --> 00:00:48,559

call nominal 40 seconds now into flight

14

00:01:12,630 --> 00:01:10,390

everything uh continuing nominally

15

00:01:17,990 --> 00:01:12,640

vehicles delivering 102 tons of thrust

16

00:01:21,510 --> 00:01:19,830

be burning liquid fuel for the first two

17

00:01:24,469 --> 00:01:21,520

minutes and six seconds of flight we're

18

00:01:27,030 --> 00:01:24,479

now one minute and 16 seconds in

19

00:02:05,109 --> 00:01:27,040

velocity should be 1100 miles per hour

20

00:02:05,119 --> 00:02:12,790

what got him upstairs

21

00:02:16,790 --> 00:02:14,790

the rockets four strap-on boosters have

22

00:02:19,670 --> 00:02:16,800

now been jettisoned and progress 56

23

00:02:21,830 --> 00:02:19,680

isn't at an altitude of 30 miles above

24

00:02:23,589 --> 00:02:21,840

the earth 73 miles down range from the

25

00:02:25,589 --> 00:02:23,599

back north cosmodrome

26

00:02:41,030 --> 00:02:25,599

and traveling about 3

27

00:02:46,229 --> 00:02:43,430

everything continuing to look good as it

28

00:02:48,150 --> 00:02:46,239

uh progress 56 makes its way

29

00:02:49,589 --> 00:02:48,160

towards space on the

30

00:03:00,229 --> 00:02:49,599

path towards the international space

31

00:03:04,949 --> 00:03:02,470

escape tower and launch shroud now have

32

00:03:07,430 --> 00:03:04,959

been jettisoned vehicles continuing on

33

00:03:11,990 --> 00:03:07,440

its course 52 miles above the earth and

34

00:03:40,949 --> 00:03:13,949

traveling now

35

00:03:44,470 --> 00:03:43,030

everything continuing uh

36

00:03:46,550 --> 00:03:44,480

to

37

00:03:49,350 --> 00:03:46,560

proceed as planned everything working

38

00:03:49,360 --> 00:03:53,030

performing as expected

39

00:03:56,390 --> 00:03:54,789

the core stage of the soyuz rocket

40

00:03:59,190 --> 00:03:56,400

secure that's carrying the progress

41

00:04:01,589 --> 00:03:59,200

capsule into space is 56 feet in length

42

00:04:03,429 --> 00:04:01,599

thirteen and a half feet in diameter

43

00:04:06,470 --> 00:04:03,439

with a single engine with four fuel

44

00:04:08,789 --> 00:04:06,480

chambers providing 96 tons of thrust

45

00:04:10,149 --> 00:04:08,799

for its

46

00:04:22,790 --> 00:04:10,159

now four

47

00:04:26,629 --> 00:04:24,469

back now with a live view inside the

48

00:04:33,030 --> 00:04:26,639

russian flight control

49

00:04:38,390 --> 00:04:34,950

about 20 seconds away from the second

50

00:04:43,189 --> 00:04:41,430

you can see here the

51  
00:04:45,749 --> 00:04:43,199  
sequence of events for the progress

52  
00:04:49,110 --> 00:04:47,270  
next up again is the second stage

53  
00:05:10,150 --> 00:04:49,120  
separation should be coming up any

54  
00:05:15,510 --> 00:05:12,230  
and the second stage separation has now

55  
00:05:18,070 --> 00:05:15,520  
been confirmed the core stage engine is

56  
00:05:19,430 --> 00:05:18,080  
now finished and dropping away

57  
00:05:20,950 --> 00:05:19,440  
about four minutes of powered flat

58  
00:05:23,029 --> 00:05:20,960  
remaining

59  
00:05:25,749 --> 00:05:23,039  
rockets now being propelled by a single

60  
00:05:27,670 --> 00:05:25,759  
single engine of the third stage which

61  
00:05:30,629 --> 00:05:27,680  
is providing 30 tons of thrust and will

62  
00:05:33,830 --> 00:05:30,639  
burn for four minutes and two seconds

63  
00:05:49,990 --> 00:05:33,840

progress 56 is now 103 miles above the

64

00:05:52,710 --> 00:05:51,749

teams on the ground reporting that third

65

00:06:22,309 --> 00:05:52,720

stage

66

00:06:28,230 --> 00:06:24,790

a little over six minutes now until

67

00:06:30,629 --> 00:06:28,240

into uh the flight of progress

68

00:06:32,790 --> 00:06:30,639

you can see that the next event coming

69

00:06:33,749 --> 00:06:32,800

up will be about eight minutes and 45

70

00:06:36,550 --> 00:06:33,759

seconds

71

00:07:06,469 --> 00:06:36,560

into the flight that's the third stage

72

00:07:10,230 --> 00:07:08,309

seven minutes now into the flight of

73

00:07:12,629 --> 00:07:10,240

progress 56

74

00:07:14,309 --> 00:07:12,639

it launched right on time at 4 44 p.m

75

00:07:15,589 --> 00:07:14,319

central time

76

00:07:17,749 --> 00:07:15,599

and has a

77

00:07:19,430 --> 00:07:17,759

just a

78

00:07:25,830 --> 00:07:19,440

little less than two minutes now left to

79

00:07:25,840 --> 00:08:07,189

everything continuing to work nominally

80

00:08:11,029 --> 00:08:08,869

eight minutes into the flight now less

81

00:08:13,990 --> 00:08:11,039

than a minute to go before that third

82

00:08:17,029 --> 00:08:14,000

and final stage cuts off once the

83

00:08:17,039 --> 00:08:48,389

orbit

84

00:08:48,399 --> 00:09:02,389

all systems still performing as expected

85

00:09:06,550 --> 00:09:03,910

and the teams here on the ground now

86

00:09:10,389 --> 00:09:06,560

confirming that the third stage engine

87

00:09:16,150 --> 00:09:13,750

taken place as planned a

88

00:09:17,670 --> 00:09:16,160

single liquid fuel engine is shut down

89

00:09:20,310 --> 00:09:17,680

and dropped away while the progress

90

00:09:22,630 --> 00:09:20,320

continues on now at an altitude of 125

91

00:09:39,990 --> 00:09:22,640

miles above the earth and traveling just

92

00:09:43,110 --> 00:09:41,350

and now the

93

00:09:44,150 --> 00:09:43,120

team's on the ground also confirming

94

00:09:46,710 --> 00:09:44,160

that uh

95

00:09:49,030 --> 00:09:46,720

spacecraft has automatically executed

96

00:10:37,509 --> 00:09:49,040

its pre-programmed commands to deploy

97

00:10:44,230 --> 00:10:38,710

now singing live view from the

98

00:10:51,990 --> 00:10:48,389

about uh 260 miles above the earth and

99

00:10:53,030 --> 00:10:52,000

uh progress 56 now safely on its way to

100

00:10:56,550 --> 00:10:53,040

join it

101  
00:10:59,430 --> 00:10:56,560  
and launched on time again at

102  
00:11:01,910 --> 00:10:59,440  
4 4 p.m central time it has now reached

103  
00:11:05,829 --> 00:11:03,430  
well on its way to the international

104  
00:11:07,350 --> 00:11:05,839  
space station for the docking scheduled

105  
00:11:09,670 --> 00:11:07,360  
at 10 30

106  
00:11:11,590 --> 00:11:09,680  
pm central time tonight where it will be

107  
00:11:12,790 --> 00:11:11,600  
docking to the station's piers docking

108  
00:11:14,470 --> 00:11:12,800  
compartment

109  
00:14:27,829 --> 00:11:14,480  
bringing with it five thousand seven

110  
00:14:32,629 --> 00:14:30,629  
russian cargo vehicle progress 56 is now

111  
00:14:34,470 --> 00:14:32,639  
safely on its way to the international