



**THE END**

1  
00:00:13,820 --> 00:00:10,720

[Music]

2  
00:00:15,680 --> 00:00:13,830

what early film report number 26 covers

3  
00:00:18,920 --> 00:00:15,690

progress during the period October

4  
00:00:21,410 --> 00:00:18,930

November December 1965 and is the first

5  
00:00:23,599 --> 00:00:21,420

to cover only the Saturn 1b program

6  
00:00:26,830 --> 00:00:23,609

previous reports included the now

7  
00:00:29,300 --> 00:00:26,840

completed Saturn 1 program

8  
00:00:31,519 --> 00:00:29,310

Saturn 1b the second of three

9  
00:00:33,139 --> 00:00:31,529

generations of Saturn Class Rockets is

10  
00:00:35,000 --> 00:00:33,149

being developed for manned space

11  
00:00:37,549 --> 00:00:35,010

exploration under the direction of

12  
00:00:39,650 --> 00:00:37,559

NASA's Marshall Space Flight Center the

13  
00:00:41,420 --> 00:00:39,660

vehicle consists of two stages and an

14

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

instrument unit it will have the

15

00:00:46,040 --> 00:00:43,440

capability of placing manned spacecraft

16

00:00:50,690 --> 00:00:46,050

or large scientific payloads weighing

17

00:00:53,959 --> 00:00:50,700

about 40,000 pounds in Earth orbit the

18

00:00:56,900 --> 00:00:53,969

first stage s 1b is an updated refined

19

00:00:58,279 --> 00:00:56,910

and lighter version of the s1 stage the

20

00:01:01,970 --> 00:00:58,289

first stage for the completely

21

00:01:03,950 --> 00:01:01,980

successful Saturn 1 vehicle the Chrysler

22

00:01:08,600 --> 00:01:03,960

Corporation is the prime contractor for

23

00:01:11,750 --> 00:01:08,610

the Saturn 1b first stage the second

24

00:01:14,060 --> 00:01:11,760

stage of Saturn 1b called s4b is a

25

00:01:17,780 --> 00:01:14,070

larger more powerful and refined version

26

00:01:20,030 --> 00:01:17,790

of the Saturn 1s for stage s 4b will

27

00:01:23,870 --> 00:01:20,040

also be used as the third stage of the

28

00:01:27,740 --> 00:01:23,880

Saturn 5 the Douglas Aircraft Company is

29

00:01:29,359 --> 00:01:27,750

the prime contractor for s4b the

30

00:01:31,460 --> 00:01:29,369

instrument unit contains improved

31

00:01:33,620 --> 00:01:31,470

versions of the guidance control and

32

00:01:36,380 --> 00:01:33,630

telemetry subsystems proved in the

33

00:01:39,830 --> 00:01:36,390

Saturn one this same design will be used

34

00:01:43,460 --> 00:01:39,840

for Saturn 5 IBM is the prime contractor

35

00:01:44,420 --> 00:01:43,470

for these instrument units the launch of

36

00:01:46,609 --> 00:01:44,430

a Saturn 1b

37

00:01:49,010 --> 00:01:46,619

which will be unmanned is scheduled for

38

00:01:51,139 --> 00:01:49,020

next quarter and flights will follow

39

00:01:53,960 --> 00:01:51,149

after several unmanned flights have

40

00:01:56,569 --> 00:01:53,970

proven vehicle integrity Saturn 1b

41

00:01:58,850 --> 00:01:56,579

missions represent an important step in

42

00:02:00,789 --> 00:01:58,860

advancing launch vehicle and spacecraft

43

00:02:03,679 --> 00:02:00,799

technology providing the necessary

44

00:02:06,039 --> 00:02:03,689

technology leading to Apollo Saturn 5

45

00:02:11,420 --> 00:02:06,049

and manned exploration of space

46

00:02:16,460 --> 00:02:14,000

at Cape Kennedy pre-flight checks of s1b

47

00:02:20,300 --> 00:02:16,470

one started last quarter continued

48

00:02:22,580 --> 00:02:20,310

through this report period s4b was

49

00:02:27,649 --> 00:02:22,590

stacked atop the first stage October 1st

50

00:02:29,569 --> 00:02:27,659

following pre erection checks siu 201

51  
00:02:31,819 --> 00:02:29,579  
arrived at the Cape aboard the Kalima

52  
00:02:33,559 --> 00:02:31,829  
following pre erection checks the

53  
00:02:36,410 --> 00:02:33,569  
instrument unit was stacked atop the

54  
00:02:38,539 --> 00:02:36,420  
second stage October 25th vehicle

55  
00:02:41,990 --> 00:02:38,549  
pre-flight check out again immediately

56  
00:02:44,000 --> 00:02:42,000  
and continued throughout the quarter the

57  
00:02:45,410 --> 00:02:44,010  
Apollo command module arrived at the

58  
00:02:47,599 --> 00:02:45,420  
Cape October 25th

59  
00:02:49,910 --> 00:02:47,609  
two days later the service module was

60  
00:02:51,920 --> 00:02:49,920  
delivered following extensive testing

61  
00:02:54,559 --> 00:02:51,930  
including static firing of the service

62  
00:02:57,920 --> 00:02:54,569  
module both units were erected December

63  
00:02:59,899 --> 00:02:57,930

26th also at the Cape installation of

64

00:03:03,319 --> 00:02:59,909

the final items of electrical support

65

00:03:05,599 --> 00:03:03,329

equipment was completed the launch

66

00:03:08,770 --> 00:03:05,609

escape system will be installed atop the

67

00:03:11,240 --> 00:03:08,780

Apollo spacecraft early next quarter

68

00:03:13,699 --> 00:03:11,250

following completion at Marshall system

69

00:03:15,740 --> 00:03:13,709

development facility the s4b launch

70

00:03:18,949 --> 00:03:15,750

computer program tapes were delivered to

71

00:03:21,349 --> 00:03:18,959

KSC December 15th including the Saturn

72

00:03:28,569 --> 00:03:21,359

1b computer program tape deliveries for

73

00:03:34,039 --> 00:03:31,430

s1b to post static checkout began

74

00:03:37,550 --> 00:03:34,049

October 4th at Chrysler Michou and was

75

00:03:39,349 --> 00:03:37,560

completed in mid-november following

76  
00:03:41,750 --> 00:03:39,359  
completion of preparations for shipment

77  
00:03:43,729 --> 00:03:41,760  
the stage will remain at Michou until

78  
00:03:49,610 --> 00:03:43,739  
scheduled shipment to the Cape late

79  
00:03:52,039 --> 00:03:49,620  
January at MSFC s1 b3 underwent two

80  
00:03:55,449 --> 00:03:52,049  
successful static firings the first on

81  
00:03:57,949 --> 00:03:55,459  
October 12th the second on October 26th

82  
00:04:00,589 --> 00:03:57,959  
the stage was shipped from Marshall to

83  
00:04:02,539 --> 00:04:00,599  
Michou November 4th most static

84  
00:04:04,849 --> 00:04:02,549  
modifications and repair continued

85  
00:04:08,659 --> 00:04:04,859  
throughout the quarter stage checkout is

86  
00:04:11,390 --> 00:04:08,669  
scheduled for mid-january also at

87  
00:04:13,580 --> 00:04:11,400  
Chrysler Michou s 1b for a pre static

88  
00:04:17,569 --> 00:04:13,590

checkout began October 6th and was

89

00:04:19,849 --> 00:04:17,579

completed November 8 preparations for

90

00:04:22,039 --> 00:04:19,859

stage shipment started immediately it

91

00:04:24,860 --> 00:04:22,049

departed Michoud assemble and was

92

00:04:28,060 --> 00:04:24,870

offloaded at Marshall December 13th

93

00:04:31,159 --> 00:04:28,070

patek testing is scheduled for january

94

00:04:34,129 --> 00:04:31,169

s1 b5 stage assembly started last

95

00:04:35,540 --> 00:04:34,139

quarter was completed November 30th pre

96

00:04:37,189 --> 00:04:35,550

static check out got underway

97

00:04:40,640 --> 00:04:37,199

immediately and is scheduled for

98

00:04:43,280 --> 00:04:40,650

completion early next quarter stage

99

00:04:45,770 --> 00:04:43,290

fabrication for s1 b6 was completed

100

00:04:48,710 --> 00:04:45,780

early this quarter tank clustering began

101  
00:04:52,550 --> 00:04:48,720  
October 22nd stage assembly continued

102  
00:04:54,230 --> 00:04:52,560  
throughout the quarter s1 b7 stage

103  
00:04:57,409 --> 00:04:54,240  
fabrication continued throughout the

104  
00:05:03,140 --> 00:04:57,419  
quarter stage fabrication for s1 b8 is

105  
00:05:04,969 --> 00:05:03,150  
also underway on november 9th at dud

106  
00:05:07,900 --> 00:05:04,979  
missus Sacto facility the second

107  
00:05:10,969 --> 00:05:07,910  
attempts to acceptance fire s4 b - o -

108  
00:05:14,689 --> 00:05:10,979  
located in beta stands number 3 was made

109  
00:05:16,790 --> 00:05:14,699  
after 307 seconds of main stage burning

110  
00:05:18,500 --> 00:05:16,800  
the firing was automatically terminated

111  
00:05:21,260 --> 00:05:18,510  
due to problems within the liquid

112  
00:05:23,420 --> 00:05:21,270  
hydrogen mare sensing system the problem

113  
00:05:25,790 --> 00:05:23,430

was corrected but during countdown for

114

00:05:27,980 --> 00:05:25,800

the next attempt a battery subsystem

115

00:05:30,409 --> 00:05:27,990

malfunctioned terminating the countdown

116

00:05:32,779 --> 00:05:30,419

on December 1st the stage was

117

00:05:34,610 --> 00:05:32,789

successfully acceptance fired indicating

118

00:05:42,409 --> 00:05:34,620

successful solution to all the problems

119

00:05:44,120 --> 00:05:42,419

encountered that mrs. s4 b2o3 stage were

120

00:05:47,210 --> 00:05:44,130

shipped from Huntington Beach aboard the

121

00:05:49,969 --> 00:05:47,220

Orion October 29th it arrived at the

122

00:05:52,159 --> 00:05:49,979

Sacramento River dock November 1st was

123

00:05:54,890 --> 00:05:52,169

unloaded then transported to sacto the

124

00:05:57,230 --> 00:05:54,900

following day the stage was installed in

125

00:05:58,939 --> 00:05:57,240

beta stand number one recently converted

126  
00:06:01,279 --> 00:05:58,949  
from a battleship facility to an

127  
00:06:03,290 --> 00:06:01,289  
acceptance test facility stage

128  
00:06:05,510 --> 00:06:03,300  
repowering operations continued through

129  
00:06:07,240 --> 00:06:05,520  
the quarter with static firing scheduled

130  
00:06:10,100 --> 00:06:07,250  
for next quarter

131  
00:06:12,290 --> 00:06:10,110  
the s4b battleship stage which was

132  
00:06:14,330 --> 00:06:12,300  
removed from beta test stands number one

133  
00:06:16,520 --> 00:06:14,340  
last quarter will be delivered in

134  
00:06:18,740 --> 00:06:16,530  
January to the Arnold Engineering Center

135  
00:06:23,360 --> 00:06:18,750  
at Tullahoma Tennessee for altitude

136  
00:06:26,120 --> 00:06:23,370  
simulation firing tests s for b204

137  
00:06:28,700 --> 00:06:26,130  
systems in plants checkout was completed

138  
00:06:30,650 --> 00:06:28,710

December 17th modifications and

139

00:06:33,409 --> 00:06:30,660

preparations for shipment are underway

140

00:06:35,570 --> 00:06:33,419

following final inspection the stage is

141

00:06:37,730 --> 00:06:35,580

scheduled for shipment to Sacto early

142

00:06:40,770 --> 00:06:37,740

next quarter

143

00:06:43,380 --> 00:06:40,780

s4b 2:05 installation of stage

144

00:06:47,070 --> 00:06:43,390

insulation begun last quarter was

145

00:06:51,270 --> 00:06:47,080

completed at the end of October mating

146

00:06:53,670 --> 00:06:51,280

of the lh2 and lox tanks for s4b 206 was

147

00:06:56,280 --> 00:06:53,680

completed in October installation of

148

00:06:59,480 --> 00:06:56,290

tank insulation began in November and is

149

00:07:01,890 --> 00:06:59,490

scheduled for completion in mid-january

150

00:07:05,220 --> 00:07:01,900

following bonding of the common bulkhead

151  
00:07:08,070 --> 00:07:05,230  
for s4b 207 last quarter the LOX tank

152  
00:07:09,930 --> 00:07:08,080  
and forward lh2 dome were shipped from

153  
00:07:12,230 --> 00:07:09,940  
Santa Monica to Huntington Beach in

154  
00:07:15,120 --> 00:07:12,240  
mid-october for mating

155  
00:07:19,020 --> 00:07:15,130  
due to defective wells in the original

156  
00:07:21,570 --> 00:07:19,030  
after LOX dome for s4b 208 Douglas is

157  
00:07:24,270 --> 00:07:21,580  
fabricating a new F dome for the stage

158  
00:07:26,700 --> 00:07:24,280  
no shipping delay is anticipated for the

159  
00:07:28,710 --> 00:07:26,710  
LOX tank to Huntington Beach the common

160  
00:07:34,730 --> 00:07:28,720  
bulkhead is complete and awaiting the

161  
00:07:40,890 --> 00:07:38,280  
structural testing of SIU 200-500

162  
00:07:42,750 --> 00:07:40,900  
s2 produced by North American got

163  
00:07:44,910 --> 00:07:42,760

underway at Marshall in late December

164

00:07:47,070 --> 00:07:44,920

testing of the unit to verify the

165

00:07:49,260 --> 00:07:47,080

structural integrity of the fourth and

166

00:07:52,470 --> 00:07:49,270

subsequent flight units will continue

167

00:07:55,440 --> 00:07:52,480

during the next quarter at IBM

168

00:07:57,540 --> 00:07:55,450

Huntsville SIU 202 assembly started last

169

00:07:59,760 --> 00:07:57,550

quarter was completed in mid-december

170

00:08:02,840 --> 00:07:59,770

checkout began immediately with

171

00:08:06,600 --> 00:08:02,850

completion planned for early February

172

00:08:08,160 --> 00:08:06,610

also at IBM SIU 203 component

173

00:08:10,230 --> 00:08:08,170

installation continued through the

174

00:08:13,190 --> 00:08:10,240

quarter completion of assembly is

175

00:08:16,350 --> 00:08:13,200

planned for the middle of next quarter

176  
00:08:18,480 --> 00:08:16,360  
fabrication assembly for SIU 204 was

177  
00:08:20,520 --> 00:08:18,490  
completed in December component

178  
00:08:25,930 --> 00:08:20,530  
installation is planned to start next

179  
00:08:28,480 --> 00:08:25,940  
quarter at Rocketdyne

180  
00:08:30,520 --> 00:08:28,490  
Oh Susanna facility j2 qualification

181  
00:08:33,940 --> 00:08:30,530  
testing implemented two-man rate the

182  
00:08:36,399 --> 00:08:33,950  
engine was completed December 17 the

183  
00:08:37,960 --> 00:08:36,409  
engine was fired 30 times for a total of

184  
00:08:43,060 --> 00:08:37,970  
three thousand seven hundred fifty

185  
00:08:44,830 --> 00:08:43,070  
seconds radio interference tests a

186  
00:08:46,840 --> 00:08:44,840  
segment of the qualification test

187  
00:08:49,270 --> 00:08:46,850  
program were conducted in Rocketdyne

188  
00:08:51,400 --> 00:08:49,280

Santa Monica facility purpose of the

189

00:08:53,350 --> 00:08:51,410

tests is to show that the engine will

190

00:08:57,610 --> 00:08:53,360

neither emit nor be susceptible to

191

00:08:59,650 --> 00:08:57,620

undesirable interference rocket dines

192

00:09:01,900 --> 00:08:59,660

research and development program on j2

193

00:09:04,300 --> 00:09:01,910

engine thermal insulation is now

194

00:09:05,980 --> 00:09:04,310

complete a laboratory sample was

195

00:09:08,320 --> 00:09:05,990

subjected to various degrees of

196

00:09:11,860 --> 00:09:08,330

temperature using a plasma gun to

197

00:09:15,580 --> 00:09:11,870

generate heat to j2 engines were

198

00:09:17,830 --> 00:09:15,590

delivered in December 1 for the s4b 206

199

00:09:21,210 --> 00:09:17,840

at Douglas and the other for the s for

200

00:09:23,350 --> 00:09:21,220

the battleship stage at Marshall

201  
00:09:24,970 --> 00:09:23,360  
zero-gravity drop tests are being

202  
00:09:27,610 --> 00:09:24,980  
conducted at Marshalls recently

203  
00:09:30,310 --> 00:09:27,620  
completed 400-foot drop tower facility

204  
00:09:32,110 --> 00:09:30,320  
these tests are a segment of a broad

205  
00:09:34,120 --> 00:09:32,120  
research program to determine the

206  
00:09:36,760 --> 00:09:34,130  
behavior of liquid hydrogen during

207  
00:09:38,500 --> 00:09:36,770  
orbital flight these data will increase

208  
00:09:42,070 --> 00:09:38,510  
the confidence level of a successful

209  
00:09:44,740 --> 00:09:42,080  
restart of the s4b engine necessary for

210  
00:09:46,960 --> 00:09:44,750  
manned lunar missions this is a low

211  
00:09:49,900 --> 00:09:46,970  
gravity test package in process of being

212  
00:09:52,450 --> 00:09:49,910  
released from the 366 foot level for a

213  
00:09:54,940 --> 00:09:52,460

freefall drop time of approximately four

214

00:09:56,980 --> 00:09:54,950

seconds your behavior data gathered

215

00:09:59,290 --> 00:09:56,990

during these tests will establish a

216

00:10:04,330 --> 00:09:59,300

baseline needed for preparation of SI

217

00:10:06,880 --> 00:10:04,340

203 flight the second stage of si 203

218

00:10:09,760 --> 00:10:06,890

will carry approximately ten tons of lh2

219

00:10:11,860 --> 00:10:09,770

into low-earth orbit during this time

220

00:10:13,960 --> 00:10:11,870

studies will be made on the behavior of

221

00:10:17,860 --> 00:10:13,970

the fuel within the stage during its

222

00:10:19,780 --> 00:10:17,870

weightless condition in summary October

223

00:10:21,970 --> 00:10:19,790

November and December were months of

224

00:10:24,850 --> 00:10:21,980

continuing progress within the Saturn 1b

225

00:10:28,030 --> 00:10:24,860

program continued build-up of Saturn 1b

226

00:10:30,400 --> 00:10:28,040

stages and equipment completion of j2

227

00:10:33,190 --> 00:10:30,410

engine qualification testing at Santa

228

00:10:36,960 --> 00:10:33,200

Susana and pre-launch checkouts at KSC