

For your information

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NASA - MARSHALL

14-204

TO: MAJOR GENERAL SAMUEL C. PHILLIPS, USAF, DIRECTOR, APOLLO PROGRAM

OFFICE OF MANNED SPACE FLIGHT, NASA, WASHINGTON, D.C.

SUBJECT: SHIPMENT OF S-IU-204 TO KSC

UNCLASSIFIED MESSAGE IN REPLY REFER TO I-1/IB-MGR

BEGINNING OF TEXT. YOU ARE ADVISED THAT SATURN IB INSTRUMENT

S-IU-204 IS SCHEDULED FOR DEPARTURE FROM REDSTONE ARSENAL FOR KSC

SKIDSTRIP AUGUST 16, 1966 A.M. ABOARD B-377 SUPER GUPPY AIRCRAFT.

THE CONTROL MILESTONE FOR DELIVERY OF THE S-IU-204 ON AUGUST 15, 1966

HAS NOT MET BECAUSE OF SEVERE WEATHER CONDITIONS AND OPERATIONAL

DIFFICULTIES WITH THE SUPER GUPPY AIRCRAFT.

CHECKOUT PROBLEMS

S-IU-204 COMPLETED MANUFACTURING CHECKOUT ON JULY 27, 1966. MAJOR

PROBLEM AREAS ENCOUNTERED DURING MANUFACTURING CHECKOUT WERE AS

FOLLOWS:

a. THERE WERE FOUR UCR'S WRITTEN AGAINST THE FLIGHT CONTROL COMPUTER (FCC) USED DURING THE CHECKOUT OF S-IU-204. THESE CONDITIONS WILL BE CORRECTED ON THE FLIGHT UNIT SHIPPED WITH THE IU.

b. A NON-FLIGHT CONTROL SIGNAL PROCESSOR WAS USED DURING CHECKOUT BECAUSE OF SCHEDULE PROBLEMS ASSOCIATED WITH THE MODIFICATION OF ALL UNITS TO THE MOD V CONFIGURATION.

c. PROBLEM AREAS ENCOUNTERED WITH THE ENVIRONMENTAL CONTROL

1966 AUG 16 PM 12 40
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SYSTEM (ECS) WERE VALIDATED DURING THE CHECKOUT PERIOD BETWEEN JUNE 28 AND JULY 27, 1966.

WORK REMAINING

a. ECR 66-0170 WILL HAVE TO BE ACCOMPLISHED AT KSC. THIS WILL NECESSITATE THE REPLACEMENT OF 16 DC AMPLIFIERS. THE AMPLIFIERS WILL BE MADE AVAILABLE BY THE CONTRACTOR ON SEPTEMBER 15, 1966.

b. INSTALLATION OF LOOSE SHIPPED ITEMS LISTED IN NEXT TWO SECTIONS. THE NECESSARY HARDWARE TO INSTALL THE LOOSE SHIPPED ITEMS WILL ACCOMPANY THE SHIPMENT.

c. FORTY-FIVE SECOND TIMER - THE 45 SECOND TIMER INSTALLED ON S-IU-204 WILL HAVE TO BE REPLACED WITH A 40 (+2,-0) SECOND TIMER. HARDWARE AND DOCUMENTATION WILL BE AVAILABLE ON AUGUST 19, 1966 (ECR A10-0007 BY CCBD 305-66-0387).

INSTALLATION OF LOOSE SHIPPED COMPONENTS

a. LVDC/LVDA SCHEDULED FOR DELIVERY TO KSC ON DEMAND OF KSC AFTER SEPTEMBER 8, 1966. INSTALLATION TIME IS INCLUDED IN KSC SCHEDULE.

b. ST-124 PLATFORM SYSTEM - SCHEDULED FOR DELIVERY TO KSC ON SEPTEMBER 5, 1966. INSTALLATION TIME IS INCLUDED IN KSC SCHEDULE.

c. BATTERIES - SCHEDULED FOR DELIVERY TO KSC AS REQUIRED, FOUR WEEKS PRIOR TO LAUNCH. INSTALLATION TIME IS INCLUDED IN KSC.

SCHEDULE.

d. FLIGHT CONTROL COMPUTER - SCHEDULED FOR DELIVERY WITH THE INSTRUMENT UNIT. INSTALLATION TIME IS INCLUDED IN KSC SCHEDULE.

MISSING COMPONENTS

a. CONTROL SIGNAL PROCESSOR (CSP). IT IS PLANNED TO USE THE SPARE CSP PRESENTLY AT KSC FOR S-IU-202 AS THE S-IU-204 FLIGHT COMPONENT.

b. 245 MULTIPLEXER - THIS COMPONENT WILL BE DELIVERED TO KSC ON AUGUST 17, 1966 P.M.

UNQUALIFIED COMPONENTS

ALL COMPONENTS INSTALLED OR SPARED FOR S-IU-204 ARE SCHEDULED TO COMPLETE QUALIFICATION TESTING PRIOR TO THE FLIGHT OF AS-204. AT THIS TIME THERE ARE NO PLANS TO REPLACE ANY COMPONENTS AS A RESULT OF QUALIFICATION TESTING.

COORDINATION

THE CONTENTS OF THIS TELETYPE HAVE BEEN COORDINATED WITH MR. ED MATHEWS, DG (VIA MR. CLARK), CHIEF, APOLLO SATURN SYSTEMS OFFICE AT KSC ON AUGUST 13, 1966. WITH CERTAIN CONSIDERATIONS MR. MATHEWS AGREES THAT THE ABOVE LISTED OUTSTANDING WORK CAN BE ACCOMPLISHED AT KSC WITHOUT IMPACTING SA-204 LAUNCH VEHICLE SCHEDULE.

UNCLASSIFIED

ASSESSMENT

IN CONSIDERATION OF ABOVE STATED ACTIVITY THE S-IU-204 INSTRUMENT
UNIT IS ASSESSED AS READY FOR THE NEXT EVENT. END OF TEXT.

SIGNED BY LEE B. JAMES, MANAGER SATURN I/IB PROGRAM

cc:

DIR, Dr. von Braun
DEP-T, Dr. Rees
DA, Mr. Petrone
I-DIR, Gen. O'Connor
I-I/IB-T, Mr. Pike
I-K, Col. Montgomery
I-K-I/IB, Mr. Lee
MAT, Mr. Savage
MO, Mr. Christensen
DC, Mr. Mathews

William K. Simmons, Jr.
Manager, Saturn I/IB Instrument Unit

876-4134

August 16, 1966 10:30 a.m.

UNCLASSIFIED

Original signed by Lee B. James
Manager, Saturn I/IB Program