



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NOTICE

OCP-B-63005-LTA-8

24 August 1967

*A OPEN ITEM AND PRE TEST
MEETING SHALL BE HELD FOR
Each Section 10/31/67*



CHECKLIST AND PROCEDURE-VEHICLE SUPPORT

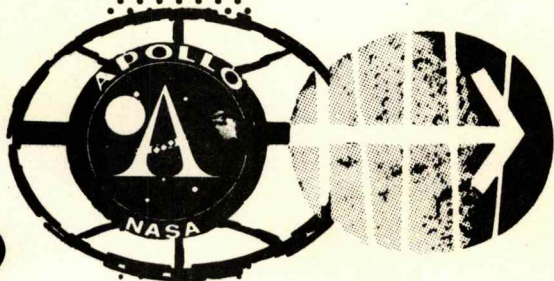
SYSTEMS INSTALLATION CHAMBER B

Grumman Aircraft Engineering Corporation

Official Test Record

This Is The Current Issue Of

of this *OCP-B-63005-LTA8* for Run No.
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PROJECT APOLLO

NAS 9-1100
EXHIBIT E, PARAGRAPH 10.3.1
PRIMARY NO. 819 WORK PKG 640
TYPE I

OCP-B-63005-LTA-8
DATE 08/24/67
REVISION

CHECKLIST AND PROCEDURE-VEHICLE SUPPORT SYSTEMS INSTALLATION
CHAMBER B

GAEC

NASA

PREPARED BY *Robert T. Brown* APPROVED BY *Jack Bowyer 8/26/67*
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ABSTRACT

THIS OPERATIONAL CHECKOUT PROCEDURE IS PERFORMED IN TEST CHAMBER B OF BUILDING 32 AT THE NASA MANNED SPACECRAFT CENTER, HOUSTON, TEXAS, AND INCLUDES THE FOLLOWING.

INSTALLATION OF CABIN CLEANLINESS ENCLOSURE AND CABIN ENTRANCE PROCEDURE.

INSTALLATION OF GSE/LTA-8 CABLES AND FLUID LINES INTERFACE CONNECTIONS.

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GENERAL INFORMATION

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CHECKOUT OBJECTIVES

TO PROVIDE MECHANICAL, ELECTRICAL, AND FLUID INTERFACE CONNECTIONS FOR THERMAL VACUUM TESTS TO THE LTA-8 VEHICLE WITHIN CHAMBER B.

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LIST OF REFERENCES

DOCUMENTS

NUMBER -----	DATE -----	ORIGINATOR -----	TITLE -----
MSC-SPEC C-5A	5/66	NASA-MSC	APOLLO SPACECRAFT CLEANLINESS SPECIFICATION FOR
LSP14-00114	4/18/66	GAEC	SURFACE CLEANLINESS LEVELS, GENERAL SPECIFICATION FOR
LSP14-0011B	2/9/67	GAEC	CONTROLLED ENVIRONMENTAL FACILITIES, GENERAL SPECIFICATION FOR
SM-3A-221	4/9/65	NAA S AND ID DOWNFY	SUPPORT MANUAL, GROUND COOLING CART, MODEL NO. A14-C11
VTP-B-43113	8/23/66	NASA	GROUND COOLING CART 430-91011 VALIDATION

DRAWINGS

NUMBER -----	DATE -----	ORIGINATOR -----	TITLE -----
LDW-420-11000-7		GAEC	ADAPTER, FORWARD ACCESS HATCH
LDW-420-11010-1		GAEC	ENCLOSURE, CABIN CLEANLINESS
LDW-420-11262-3		GAEC	COVER, PROTECTIVE FLOOR
LSC-420-14049-1		GAEC	VACUUM CLEANER
LDW-430-14059-3		GAEC	DUCT SET, COOLING CART
LDW-430-91011-1		GAEC	GROUND COOLING CART
PGSE 17-40	10/26/66	GAEC	PRIORITY GUIDE

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LIST OF ABBREVIATIONS AND SYMBOLS

AC	ALTERNATING CURRENT
ACE	ACCEPTANCE CHECKOUT EQUIPMENT
AEA	ABORT ELECTRONICS ASSEMBLY
A/S	ASCENT STAGE
ASA	ABORT SENSOR ASSEMBLY
ASAPTMU	ABORT SENSOR ASSEMBLY PORTABLE TEMPERATURE MEASUREMENT UNIT
CB	CIRCUIT BREAKER
CH	CHANNEL
CM	COMMAND MODULE
CMST	COMMAND MODULE SIMULATOR TUNNEL
C/O	CHECKOUT
COMM	COMMUNICATION
CONN	CONNECTION
CSM	COMMAND SERVICE MODULE
CSMS	COMMAND SERVICE MODULE SIMULATOR
CTL	CONTROL
DC	DIRECT CURRENT
DESIG.	DESIGNATION
DFI	DEVELOPMENTAL FLIGHT INSTRUMENTATION
D/S	DESCENT STAGE
ECA	ELECTRONICS CONTROL ASSEMBLY
ECS	ENVIRONMENTAL CONTROL SUBSYSTEM
ECT	ENVIRONMENTAL CONTROL TECHNICIAN
EPS	ELECTRICAL POWER SUBSYSTEM

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LIST OF ABBREVIATIONS AND SYMBOLS

ET	ELECTRICAL TECHNICIAN
F	FAHRENHEIT
GAEC	GRUMMAN AIRCRAFT ENGINEERING CORPORATION
G AND N	GUIDANCE AND NAVIGATION
GN2	GASEOUS NITROGEN
GO2	GASEOUS OXYGEN
GORP	GROUND OPERATIONS REQUIREMENT PLAN
GRD	GUARD
GRD HTR	GUARD HEATER
GSE	GROUND SUPPORT EQUIPMENT
H2O	WATER
HE	HELIUM
HTR	HEATER
HTS	HEAT TRANSPORT SYSTEM
HZ	HERTZ
IMU	INERTIAL MEASUREMENT UNIT
ISS	INTERSTAGE SEPARATION SIMULATOR
KVA	KILOVOLT AMPERE
LM	LUNAR MODULE
LN2	LIQUID NITROGEN
LTA	LUNAR MODULE TEST ARTICLE
LSC	LM SPECIFICATION CONTROL
MSC	MANNED SPACECRAFT CENTER
MT	MECHANICAL TECHNICIAN

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LIST OF ABBREVIATIONS AND SYMBOLS

NAA	NORTH AMERICAN AVIATION
NASA	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
NEG	NEGATIVE
NO.	NUMBER
NSE	NASA SYSTEMS ENGINEER
OCP	OPERATIONAL CHECKOUT PROCEDURE
OX	OXYGEN
POS	POSITIVE
PCA	PROPELLANT CONTROL ASSEMBLY
P/N	PART NUMBER
PRI	PRIMARY
PSA	PORTABLE SENSOR ASSEMBLY
PTC	PORTABLE TEMPERATURE CONTROL
QC	QUALITY CONTROL
REF	REFERENCE
S/C	SPACECRAFT
SESL	SPACECRAFT ENVIRONMENTAL SIMULATION LABORATORY
SHE	SUPERCRITICAL HELIUM
SHLD	SHIELD
SPEC.	SPECIFICATION
T/C	THERMOCOUPLE
TE	TEST ENGINEER
TPS	TEST PREPARATION SHEET
TW	TECHNICAL WRITER

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LIST OF ABBREVIATIONS AND SYMBOLS

W/G	WATER GLYCOL
X,Y,Z	LM SPACECRAFT COORDINATE AXES

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CHECKOUT SUPPORT REQUIREMENTS

PERSONNEL

TYPE OF PERSONNEL	NUMBER REQUIRED		OPERATIONAL ASSIGNMENT
-----	NASA	GAEC	-----
MT		2	MECHANICAL TECHNICIAN
QC	1	1	QUALITY CONTROL
ECT		1	ENVIRONMENTAL CONTROL TECHNICIAN
TE		1	TEST ENGINEER
NSE	1		NASA SYSTEMS ENGINEER
ET		2	ELECTRICAL TECHNICIAN
TW		1	TECHNICAL WRITER
TOTAL	2	8	

SPECIAL TOOLS AND EQUIPMENT

NOMENCLATURE	MANUFACTURER AND/OR PART NUMBER	APPLICATION
-----	-----	-----
NOT APPLICABLE		

GROUND SUPPORT EQUIPMENT

NOMENCLATURE	CONTRACTOR'S OR MAN- UFACTURER'S PART NUMBER	APPLICATION
-----	-----	-----
ADAPTER, FORWARD ACCESS HATCH	LDW420-11000-7	CABIN CLEANLINESS ENCLOSURE INTERFACE
ENCLOSURE, CABIN CLEANLINESS	LDW420-11010-1	MAINTAIN CABIN CLEANLINESS
COVER, PROTECTIVE FLOOR	LDW420-11262-3	PROTECT CABIN ENTRANCE AREA

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CHECKOUT SUPPORT REQUIREMENTS

VACUUM CLEANER	LSC420-14049-1	VACUUM CLEANING OF CABIN AND ENCLOSURE
DUCT SET, COOLING CART	LDW430-14059-3	DIRECT AIR FROM GROUND COOLING CART TO CABIN CLEANLINESS ENCLOSURE
GROUND COOLING CART	LDW430-91011-1	CONDITION CABIN AIR
JUNCTION BOX	LSC410-81060	GSF TC S/C INTERFACE
RF JUNCTION BOX	LDW410-11225	GSE TC S/C INTERFACE
ASAP TMU	LSC410-31120	MAINTENANCE UNIT FOR ASA AND AEA
LUNAR PLANE	LDW451-11124	TEMPERATURE MONITOR IN S/C
PSA ADAPTER MODULE	LSC410-31080	S/C TC ACE-S/C INTERFACE

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SAFETY REQUIREMENTS

PERSONNEL SAFETY (IN ACCORDANCE WITH MSC SAFETY MANUAL) IS THE DIRECT RESPONSIBILITY OF NASA AND GAEC SUPERVISION.

WHEN AN UNSAFE CONDITION EXISTS, THE TEST ENGINEER SHALL HALT ALL TESTING AND CLEAR THE AREA OF ALL PERSONNEL EXCEPT THOSE REQUIRED TO ALLEVIATE THE CONDITION.

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SPECIAL INSTRUCTIONS

ANY PERSON MAKING AN ENTRY IN THIS PROCEDURE WILL INITIAL THE PLACE OF ENTRY, PLACE HIS SIGNATURE IN THE SPACE PROVIDED BELOW, AND IMMEDIATELY INFORM THE TE.

GAEC
Signature 1, 2, 4, 5
A. Caldwell 10/31/67
D. W. Maynard 10/31/67
J. M. Shaw
J. Belandier

NASA
A. Benby 10/31/67
U. E. Ward 10/31/67



.....

PERSONNEL SHALL NOT LEAVE THEIR STATIONS DURING PERFORMANCE OF THIS OCP WITHOUT PERMISSION OF THE TE.

ALL DEVIATIONS FROM THIS PROCEDURE SHALL BE RECORDED ON DEVIATION SHEETS AND INITIALED BY GAEC AND NASA ENGINEERING.

ALL DISCREPANCIES FOUND DURING THE PERFORMANCE OF THIS OCP SHALL BE IMMEDIATELY REPORTED TO THE TE.

THIS OCP SHALL BE CONDUCTED BY GAEC, UNDER THE SUPERVISION OF THE TE. THE CONDUCT OF THE TEST SHALL BE MONITORED BY NASA SYSTEMS ENGINEERING.

NASA MUST BE NOTIFIED PRIOR TO THE PERFORMANCE OF ANY PORTION OF THIS OCP.

IN THE EVENT THE PERFORMANCE OF THIS OCP IS INTERRUPTED FOR AN EXTENDED PERIOD (E.G., LUNCH BREAK), THE TE SHALL POST A SECURITY GUARD TO ENSURE NOTHING IS DISTURBED.

QC SHALL MAKE APPROPRIATE NOTATIONS ON THE SUMMARY CHECKOUT DATA SHEET, AND SHALL MAINTAIN A RECORD OF ALL PROCEDURE HOLD TIMES WITH APPLICABLE DR/TPS NUMBERS ON THE BLANK PORTION OF THE SHEET IN SECTION 3.0.

-NOTE-

NASA QUALITY ASSURANCE MAY REQUIRE MANDATORY INSPECTION POINTS (MIP'S) IN ADDITION TO THOSE CALLED OUT IN THIS OCP.

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TEST SET-UP

VERIFY THAT A PRETEST MEETING HAS BEEN HELD. ^{4/16/68} (982)

VERIFY THAT NO CONSTRAINING DR'S OR TPS'S ARE OPEN AGAINST ANY SYSTEM ASSOCIATED WITH THIS OCP. ? ^{4/16/68} (982)

VERIFY THAT ALL TEST EQUIPMENT CONTAINS CURRENT CALIBRATION AND/OR INSPECTION STICKERS. ? (209)

VERIFY THAT CABIN CLEANLINESS ENCLOSURE IS AVAILABLE FOR INSTALLATION IN CHAMBER B. (209)

VERIFY THAT VEHICLE SUPPORT SYSTEMS INSTALLATION CHECKLIST AND PROCEDURE CREW IS EQUIPPED AND READY FOR PERFORMANCE OF OCP-B-63005-LTA-8. (209)

VERIFY THE COMPLETION OF ALL HEATER CONTINUITY CHECKCUTS IN OCP-B-77200 LTA-8 PRIOR TO THE CONNECTION OF ANY THERMAL HEATER CABLE SPECIFIED IN THIS OCP. ? (209)

GAEC QC ... (209) ... NASA QA ...  ...

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PRE-CHECKOUT PREPARATION CHECKLIST

OPERATION AREA

W/G EVACUATION AND FILL UNIT

PERSONNEL -----	CONTROL -----	POSITION -----
MT	SOV-1	CLOSED
	SOV-2	CLOSED
	SOV-3	CLOSED
	SOV-4	CLOSED
	SOV-5	CLOSED
	SOV-6	CLOSED
	SOV-7	CLOSED
	SOV-8	CLOSED

OPERATION AREA

CABIN LEAKAGE TEST UNIT

PERSONNEL -----	CONTROL -----	POSITION -----
MT	VALVE V1	CLOSED
	VALVE V2	CLOSED
	VALVE V3	CLOSED
	VALVE V4	CLOSED
	VALVE V5	CLOSED
	VALVE V6	CLOSED
	VALVE V8	CLOSED
	VALVE V7	CLOSED
	VALVE V9	CLOSED
	VALVE V10	TEST
	VALVE V11	CLOSED
	VALVE V12	CLOSED

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PRE-CHECKOUT PREPARATION CHECKLIST

OPERATION AREA

GROUND POWER SUPPLY-LTA-8

PERSONNEL -----	CONTROL -----	POSITION -----
ET	REMOTE-LOCAL SWITCH(A1S2)	LOCAL
	LOCAL POWER CONTROL	OFF
	MAIN POWER CB	CFF

209

OPERATION AREA

EPS CHECKOUT CONTROLLER

PERSONNEL -----	CONTROL -----	POSITION -----
ET	MAIN POWER CB NO.1	CFF

209

OPERATION AREA

POWER SUPPLY DC, ACE-S/C

PERSONNEL -----	CONTROL -----	POSITION -----
ET	AC OUTPUT SWITCH S1	CFF
	DC OUTPUT SWITCH S3	OFF

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OPERATION AREA

28 VOLTS DC DIST. PANEL

PERSONNEL -----	CONTROL -----	POSITION -----
ET	CB NO.7	OFF
	CB NO.10	OFF
	CB NO.11	CFF
	CB NO.15	CFF
	CB NO.16	CFF
	CB NO.18	CFF
	CB NO.20	CFF
	CB NO.21	CFF

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OPERATION AREA

THERMAL CONTROL SYSTEM

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PRE-CHECKOUT PREPARATION CHECKLIST

PERSONNEL -----	CONTROL -----	POSITION -----
NOTE - ON UNITS A3, A8, A13, A18, A21, AND A27 ONLY		
ET	POWER ON SWITCH A2S3	OFF
	DC OUTPUT SWITCH A3CB1	OFF
	DC OUTPUT SWITCH A3CB2	OFF
	CB-21B	OFF
OPERATION AREA RACK ASSEMBLIES A22, A23, A24, AND A25		
PERSONNEL -----	CONTROL -----	POSITION -----
NOTE - ON RACK ASSEMBLIES A1 THRU A25 EXCEPT A3, A8, A13, A18 AND A21		
ET	120 VAC CB	OFF
	28 VDC CB	OFF
	125 VDC CB	OFF
OPERATION AREA GN2 FACILITY SUPPLY LINE		
PERSONNEL -----	CONTROL -----	POSITION -----
MT	VALVE FV11	CLOSED
	VALVE FV20	CLOSED
OPERATION AREA WATER-GLYCOL FACILITY SUPPLY LINE		
PERSONNEL -----	CONTROL -----	POSITION -----
MT	VALVE V301	CLOSED
OPERATION AREA REFRIGERANT SUPPLY UNIT		
PERSONNEL -----	CONTROL -----	POSITION -----

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PRE-CHECKOUT PREPARATION CHECKLIST

MT	VALVE MV3	CLOSED
OPERATION AREA		THERMAL SIM. CONTROL UNIT
PERSONNEL	CONTROL	POSITION
MT	VALVE SOV1	CLOSED

GAEC QC..... NASA QA.....

SECTION 2.0

OPERATIONAL PROCEDURES

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		01-000			INSTALLATION OF CABIN CLEANLINESS ENCLOSURE
		01-001	TE	ALL	VERIFY THAT ALL REQUIRED PERSONNEL ARE ON STATION. 10/31/67 580 62
		01-002	TE	MT	VERIFY THAT INSIDE OF TENT ASSEMBLY AND FRAME PARTS OF CLEANLINESS ENCLOSURE ARE CLEANED TO LEVEL C IN ACCORDANCE WITH LSP-14-0011B AND MSC SPEC C5-A. 149 10/31/67
		01-003	TE	MT	INSTALL LDW420-11000-7 FORWARD ACCESS HATCH ADAPTER TO LTA-8 AS FOLLOWS. 149
					01. PLACE RUBBER GASKET BETWEEN LTA-8 AND FORWARD HATCH ADAPTER. 580
					02. WITH FORWARD ACCESS HATCH CLOSED, SECURE THE ADAPTER TO FORWARD BULKHEAD, USING FOUR QUICK RELEASE PINS. 149 10/31/67
					03. ATTACH DUST COVER TO OUTBOARD END OF HATCH ADAPTER. 149 10/31/67
		01-004	TE	MT	INSTALL LDW420-11010-1 CABIN CLEANLINESS ENCLOSURE TO LTA-8 AS FOLLOWS. 149 10/31/67
					01. ASSEMBLE FRAME OF CLEANLINESS ENCLOSURE INSIDE TENT. 149 10/31/67
					02. CLOSE TENT PENETRATIONS FOR FLUID AND ELECTRICAL LINES. 149
					03. SECURE CLEANLINESS ENCLOSURE TO LDW 420-11000-7 FORWARD HATCH ADAPTER. 149 10/31/67
		01-005	TE	ECT	POSITION LDW430-91011-1 GREASE COLLECTING CART OUTSIDE OF MANLOCK.
		01-006	TE	ECT	CONNECT THE LDW430-14059-3 COOLING CART DUCT SET BETWEEN COOLING CART AND CLEANLINESS ENCLOSURE AIR INLET LDW420-11042-1. 149 10/31/67
		01-007	TE	MT	START AIR SUPPLY FROM GROUND COOLING CART AS FOLLOWS,
					01. SET 'MASTER CIRCUIT BREAKER' TO 'ON'. 149 10/31/67
					02. VERIFY 'POWER ON' INDICATOR ILLUMINATES. 149 10/31/67

Dev. T
SH 3
No. DELETED

DEV.

Dev. T
SH 1
No.

DEV. DELETED

Dev. T
SH 1
No.

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
21/1/67 0600					03. SET BLOWER SWITCH TO 'NORMAL OPERATION'. 11/1/67 685
					04. SET 'TEMPERATURE CONTROLLER' TO '70'. 11/1/67 685
					05. MOMENTARILY PRESS 'START' SWITCH. 11/1/67 685
					06. VERIFY THAT UNIT STARTS OPERATING AND 'ELAPSED TIME' INDICATOR STARTS RECORDING OPERATING TIME. 11/1/67 685
					07. VERIFY 'CONDITIONED AIR PRESSURE' INDICATOR INDICATES A MINIMUM OF 2 INCHES WATER PRESSURE. 11/1/67 685
					08. VERIFY THAT 'CONDITIONED AIR FLOW' INDICATOR INDICATES MINIMUM FLOW RATE BETWEEN 20 AND 26 POUNDS PER MINUTE. 5 1/2 11/1/67 685
					09. MONITOR 'CONDITIONED AIR TEMPERATURE' GAGE FOR 15 MINUTES. 28 11/1/67 685
					10. VERIFY 'CONDITIONED AIR TEMPERATURE' GAGE INDICATES 70 PLUS OR MINUS 5 DEGREES F. 11/1/67 685
					11. ROTATE 'TEMPERATURE CONTROLLER' TO '60'. 11/1/67 685
					12. MONITOR 'CONDITIONED AIR TEMPERATURE' GAGE FOR FIVE MINUTES. 11/1/67 685
					13. VERIFY 'CONDITIONED AIR TEMPERATURE' GAGE INDICATES 60 PLUS OR MINUS 5 DEGREES F. 11/1/67 685
					14. ROTATE 'TEMPERATURE CONTROLLER' TO '70'. 11/1/67 685
					15. MONITOR 'CONDITIONED AIR TEMPERATURE' GAGE FOR FIVE MINUTES. 11/1/67 685
					16. VERIFY 'CONDITIONED AIR TEMPERATURE' GAGE INDICATES 70 PLUS OR MINUS 5 DEGREES F. 11/1/67 685

0630
11/1/67
685
APC

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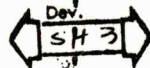
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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
------	----	-----	------------	-------------	-------------------------

CAUTION

REFER TO SECTION 5, EMERGENCY SHUTDOWN PRO-
CEDURE IN THE EVENT THAT AIR SUPPLY FROM THE
GROUND COOLING CART IS UNINTENTIONALLY INTER-
RUPTED AT ANY TIME. 982

01-008 TE MT



VACUUM CLEAN ~~WITH LSC420-14040-1~~ VACUUM CLEAN
ER AND WIPE DOWN ALL INTERIOR SURFACES OF THE
CLEANLINESS ENCLOSURE.

-NOTE-

FOR ALL VACUUMING OPERATIONS IN THE ENCLOSURE
AND THE CREW COMPARTMENT, THE VACUUM CLEANER
CAN MUST BE LOCATED OUTSIDE THE ENCLOSURE
WITH ONLY HOSE SECTIONS AND PICK-UP ATTACH-
MENTS INSIDE AS PER MSC SPEC C-5A AND
LSP-14-006A.

- ~~01. INSTALL SHELVING IN CLEANLINESS ENCLOSURE.~~
- ~~02. CLEAN SHELVING BY WIPING DOWN TO REMOVE ALL
VISIBLE SOIL AS PER MSC SPEC C-5A.~~
- ~~03. REPEAT FLOOR VACUUMING (IN CLEANLINESS ENCL-
SURE) DUST DEPOSITED DURING SHELVING INSTAL-
LATION.~~
- ~~04. PLACE MAT INSIDE THE ENCLOSURE DOOR.~~
- ~~05. PLACE BRISTOL MAT OUTSIDE THE ENCLOSURE DOOR.~~
- ~~06. PLACE CLEAN ROOM GARMENTS ON (CLEANLINESS EN-
CLOSURE) SHELVING.~~

GAEC QC 140 NASA QA 38M

149-1-67 38M

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		02-000			INSTALLATION OF CABIN CLEANLINESS FLOOR PROTECTION AND ILLUMINATION EQUIPMENT 11/1/67
DEV		02-001	TE	ET	ON THE ECS CONTROL UNIT LSC410-51190-3, PLACE SWITCH 'CABIN LIGHT KIT SWITCH' IN THE OFF POSITION. 982
		Dev. T SH 1 No.			
DEV		02-002	TE	ET	ON THE LSC410-41002 PORTABLE LIGHT SOURCE KIT, PLACE ON-OFF SWITCH IN THE OFF POSITION. 982
		Dev. T SH 1 No.			
					-NOTE-
					PRIOR TO LM CABIN ENTRY, ALLOW THE GROUND COOLING CART TO RUN FOR 3 MINUTES.
					-NOTE-
					PERSONNEL ENTERING LTA-8 SHALL COMPLY WITH THE CLEANLINESS REQUIREMENTS OF MSC SPEC C-5A AND ISP-14-006A.
		02-003	TE	MT	INSTALL LDW420-11262-3 PROTECTIVE FLOOR COVER IN THE CABIN ENTRANCE AS FOLLOWS. 982
		Dev. SH 3			
		985 DEV. T			01. REMOVE CABIN HATCH ADAPTER DUST COVER AND STOW.
		985 DEV. T			02. VACUUM CLEAN AND WIPE DOWN INTERIOR SURFACES OF THE CABIN HATCH ADAPTER. 11/1/67
		985 DEV. T			03. REMOVE THE CABIN HATCH AND STOW. 982
		985 DEV. T			04. REMOVE EXISTING FLOOR ATTACHMENT HARDWARE WITHIN THE CABIN AT THREE POINTS ALONG THE CENTER TRUSS.
		985 DEV. T			05. INSTALL FLEXIBLE FLOOR COVERING IN THE CABIN AND CABIN ENTRANCE.
		985 DEV. T			06. INSTALL CABIN ENTRANCE FLOOR DUCT FRAME OVER FLEXIBLE COVERING IN CABIN AND SECURE AT THREE POINTS ALONG THE CABIN CENTER TRUSS.
		985 DEV. T			07. INSTALL THE CABIN ENTRANCE FLOOR DUCTING.
		985 DEV. T			08. CONNECT GD10A-24 126 FLEXIBLE DUCT BETWEEN 11/1/67

PROJECT APCLLO

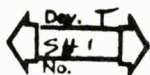
DATE 08/24/67

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					CLEANLINESS ENCLOSURE AIR INLET AND CABIN ENTRANCE FLOOR DUCTING (PROTECTIVE FLOOR)
					09. PICK UP THE MAT INSIDE CLEANLINESS ENCLOSURE NEAR DOOR AND PLACE IT AT THE LEFT SIDE (ADAPTER/11/2 QUADRANT) OF THE PROTECTIVE FLOOR.
					LONG INSTALL CABIN LIGHT KIT IN CABIN AND SECURE IT PLACE. CONNECT CABLE TO J-41 ON GSE WINDOW. FOR LIGHTING PURPOSE: CONNECT TO 100 V supply AT WORK STAND
					EXTENSION CORD FOR 20 VDC CABIN LIGHT KIT POWER MAY BE USED AND ROUTED THROUGH CABIN ENTRANCE UNTIL POWER HAS BEEN CONNECTED TO THE LTA-8.
					GAEC QC NASA QA

DEW

02-004 TE



DEV
11/1/67

DEV
SEE DEV

DEV
11/1/67

11/1/67



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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
1600 11/8/67		03-000			INSTALLATION OF CHAMBER R/LTA-8 INTERFACE ELECTRICAL CABLE CONNECTIONS-ECS
1610 11/8/67 HOLD FOR TIPS 2:53 Recheck 03-001 START 1645 11/8/67		03-001	TE	ET	ON THE ECS CONTROL UNIT (LSC410-51190-3) ENSURE THE FOLLOWING CIRCUIT BREAKERS ARE 'OFF'. POWER/VEHICLE POWER/GSE
		03-002	TE	ET	CONNECT CABLES TO THE VEHICLE AS FOLLOWS. E43 01. CONNECT P-41 OF CABLE LDW410-10952-1, LOCATED ON PLATFORM 2 NEAR COLUMN 2, TO J-41 ON THE GSE WINDOW. 02. CONNECT 1042 OF CABLE LDW410-10954-1, LOCATED ON PLATFORM 2 NEAR COLUMN 2, TO J-42 ON THE GSE WINDOW. E43 03. CONNECT J3 OF CABLE LDW410-10956, LOCATED ON PLATFORM 2 NEAR COLUMN 2, TO P3 OF THE W/G BY-X PASS SOLENOID VALVE. E43 04. CONNECT J2 OF CABLE LDW410-10956 TO P2 OF W/G RETURN SOLENOID VALVE. E43 05. CONNECT J1 OF CABLE LDW410-10956 TO P1 OF W/G SUPPLY SOLENOID VALVE. DR 1202-62 06. CONNECT J114 OF CABLE LDW410-10985, LOCATED ON PLATFORM 2 NEAR COLUMN 6, TO J114 (WATER SOLENOID STAGING VALVE) ON THE VEHICLE. E14 07. CONNECT J-1 OF CABLE LDW410-10852, LOCATED ON PLATFORM 3 OF COLUMN 6 TO P-1 OF THE W/G SUPPLY LINE TEMPERATURE TRANSDUCER -NOTE- THE FOLLOWING IS NOT AN ECS CABLE BUT GOES THROUGH THE GSE WINDOW WITH THE ECS CABLES. E43 08. CONNECT P-5 OF CABLE LDW410-10955, LOCATED ON PLATFORM 2 NEAR COLUMN 2, TO J-5 OF LTA-8.
		03-003	TE	ET	ON THE ECS CONTROL UNIT LSC410-51190-3, SET THE FOLLOWING CIRCUIT BREAKERS TO ON.

DEV WAS NOT WANTED
COULD NOT TURN ON POWER DUE
TO SER 03-002 SUBSTEP 06 DR CTW 11/13/67

1455
11/14/67

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TIME	'CH'	SEQ	'CTL	'STTN'
0000	00	00	00	00
0001	00	01	00	00
0002	00	02	00	00
0003	00	03	00	00
0004	00	04	00	00
0005	00	05	00	00
0006	00	06	00	00
0007	00	07	00	00
0008	00	08	00	00
0009	00	09	00	00
0010	00	10	00	00
0011	00	11	00	00
0012	00	12	00	00
0013	00	13	00	00
0014	00	14	00	00
0015	00	15	00	00
0016	00	16	00	00
0017	00	17	00	00
0018	00	18	00	00
0019	00	19	00	00
0020	00	20	00	00
0021	00	21	00	00
0022	00	22	00	00
0023	00	23	00	00
0024	00	24	00	00
0025	00	25	00	00
0026	00	26	00	00
0027	00	27	00	00
0028	00	28	00	00
0029	00	29	00	00
0030	00	30	00	00
0031	00	31	00	00
0032	00	32	00	00
0033	00	33	00	00
0034	00	34	00	00
0035	00	35	00	00
0036	00	36	00	00
0037	00	37	00	00
0038	00	38	00	00
0039	00	39	00	00
0040	00	40	00	00
0041	00	41	00	00
0042	00	42	00	00
0043	00	43	00	00
0044	00	44	00	00
0045	00	45	00	00
0046	00	46	00	00
0047	00	47	00	00
0048	00	48	00	00
0049	00	49	00	00
0050	00	50	00	00
0051	00	51	00	00
0052	00	52	00	00
0053	00	53	00	00
0054	00	54	00	00
0055	00	55	00	00
0056	00	56	00	00
0057	00	57	00	00
0058	00	58	00	00
0059	00	59	00	00
0060	00	60	00	00
0061	00	61	00	00
0062	00	62	00	00
0063	00	63	00	00
0064	00	64	00	00
0065	00	65	00	00
0066	00	66	00	00
0067	00	67	00	00
0068	00	68	00	00
0069	00	69	00	00
0070	00	70	00	00
0071	00	71	00	00
0072	00	72	00	00
0073	00	73	00	00
0074	00	74	00	00
0075	00	75	00	00
0076	00	76	00	00
0077	00	77	00	00
0078	00	78	00	00
0079	00	79	00	00
0080	00	80	00	00
0081	00	81	00	00
0082	00			

DESCRIPTION/INSTRUCTION
1. The first step in the process is to identify the problem or goal.
2. Next, you need to gather relevant information and data.
3. Once you have the information, you should analyze it to understand the underlying causes.
4. After analysis, you can develop a plan or strategy to address the problem.
5. The final step is to implement the plan and monitor the results.

POWER/G SE

GAEC OC NASA QA

11/14/67

NASA QA

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		04-000			INSTALLATION OF CHAMBER B ECS/LTA-8 IN- TERFACE FLUID LINE SYSTEM 982
DEV SHT. 9,		04-001	TE	MT	01. VERIFY THE FOLLOWING EQUIPMENT CONTROLS ARE SET TO DESIGNATED POSITIONS.
		04-001	TE	MT	02. ON W/G EVACUATION AND FILL UNIT LDW430-64647 ENSURE THAT THE FOLLOWING VALVES ARE CLOSED.
		04-002	TE	MT	SOV-1 SCV-4 SOV-7
		04-003	TE	MT	SOV-2 SCV-5 SOV-8
		04-004	TE	MT	SOV-3 SOV-6
		04-002	TE	MT	ON CABIN LEAKAGE TEST UNIT LDW430-54400. 982
					01. ENSURE VALVE V-11 IS CLOSED 1320
					02. ENSURE VALVE V-6 IS CLOSED 1320
					03. ENSURE VALVE V-12 IS CLOSED 1320
					04. CONNECT FHG02-14 TO GA9101 1320
					05. CONNECT FHG02-15 TO GA9102 1320
16-8-7		04-003	TE	MT	CONNECT FLUID LINE LDW430-64603-11 LOCATED ON PLATFORM LEVEL 2, NEAR COLUMN 6, TO GF9103 OF LTA-8.
11-8-7		04-004	TE	MT	CONNECT FLUID LINE LDW430-64603-13 LOCATED ON PLATFORM LEVEL 2, NEAR COLUMN 6, TO GF9100 OF LTA-8.
					GAEC QC NASA QA 239 32M

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TIME	CH	SEQ	'C/O 'CTL	'C/O 'STTN	DESCRIPTION/INSTRUCTION
		05-000			INSTALLATION OF CHAMBER B EPS INTERFACE ELE- CTRICAL CABLE CONNECTIONS 4/14/68 982
		05-001	TE	ET	VERIFY THE FOLLOWING EQUIPMENT CONTROLS ARE SET TO DESIGNATED POSITIONS. 982
					01. ON GROUND POWER SUPPLY-LTA-8 LDW410-82140, REMOTE-LOCAL SWITCH (A1S2) IN 'LOCAL' POSITION LOCAL POWER CONTROL IN OFF POSITION 11/19/67 319
					02. ON EPS CHECKOUT CONTROLLER LDW410-82290, MAIN POWER CIRCUIT BREAKER NO. 1 IS IN OFF POSITION 11/19/67 319
					03. ON POWER SUPPLY DC ACE S/C LDW410-11270-3, AC INPUT SWITCH S-1 IS AT OFF DC OUTPUT SWITCH S-3 IS AT OFF.
					04. ON 28 VDC DISTRIBUTION PANEL LSC40000701-3, ENSURE CIRCUIT BREAKERS ARE SET AS FOLLOWS. CB NO. 7 IS AT OFF 200 CB NO. 10 IS AT OFF ON CB NO. 11 IS AT OFF ON CB NO. 15 IS AT OFF CB NO. 16 IS AT OFF 6/9 CB NO. 18 IS AT OFF CB NO. 20 IS AT OFF
		05-002	TE	ET	CONNECT ECA-1-'A' OF CABLE LDW410-10853-1 LOCATED ON PLATFORM 2, NEAR COLUMN 1, TO ECA-1-'A' OF LTA-8. 1345
		05-003	TE	ET	CONNECT ECA-1-'B' OF CABLE LDW410-10854-1 LOCATED ON PLATFORM 2, NEAR COLUMN 1, TO ECA-1-'B' OF LTA-8. 1345
		05-004	TE	ET	CONNECT ECA-2-'A' OF CABLE LDW410-10855-1 LOCATED ON PLATFORM 1, NEAR COLUMN 1, TO ECA-2-'A' OF LTA-8. 1345
		05-005	TE	ET	CONNECT ECA-2-'B' OF CABLE LDW410-10856-1 LOCATED ON PLATFORM 1, NEAR COLUMN 1, TO ECA-2-'B' OF LTA-8. 1345
		05-006	TE	ET	CONNECT ECA-1 AND -2 OF CABLE LDW410-10857-1 LOCATED ON PLATFORM 1, NEAR COLUMN 1, TO ECA-1 AND -2 OF LTA-8. 1345

Dev. No. 319
Dev. No. 319

Dev. No. 547

Dev. No. 547
Dev. No. 547

REF. TFS-3254
1345

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					AND →
		05-007	TE	ET	CONNECT ECA-3 AND -4 OF CABLE LDW410-10946-1 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO ECA-3 AND -4 OF LTA-8.
		05-008	TE	ET	CONNECT ECA-3 AND -4 OF CABLE LDW410-10951-1 LOCATED ON PLATFORM 2, NEAR COLUMN 6 TO ECA-3 AND -4 OF LTA-8.
		05-009	TE	ET	CONNECT ECA-3 AND -4 OF CABLE LDW410-10955-1 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO ECA-3 AND -4 OF LTA-8.
		05-010	TE	ET	CONNECT P-95 OF CABLE LDW410-10862-1 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TO J-95 OF LTA-8.
		05-011	TE	ET	CONNECT P92 OF CABLE LDW410-10973-1 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TO J 92 OF LTA-8.
		05-011A			GAEC QC . 209... NASA QA
		05-012	TE	ET	CONNECT P9 AND P10 OF CABLE LDW 410-11126 LOCATED ON PLATFORM 4, NEAR COLUMN 5, TO J9 AND J10 OF LTA-8.
		05-013	TE	ET	CONNECT P166 OF CABLE LDW 410-11107-1 LOCATED ON PLATFORM 3, NEAR COLUMN 1, TO J166 OF LTA-8.
		05-014	TE	ET	CONNECT P27 ^{BIM} AND P27A OF CABLE LDW-410-11586 LOCATED ON PLATFORM 4, NEAR COLUMN 6, TO J27 AND J27A OF LTA-8.
		05-015	TE	ET	CONNECT P31, P32, P31A, AND P32A OF LDW410-11585 LOCATED ON PLATFORM 2, NEAR COLUMN 1, TO J31, J32, J31A AND J32A OF LTA-8.

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		06-000			INSTALLATION OF CHAMBER 'B' C AND S BAND INTER- FACE ELECTRICAL CABLE CONNECTIONS
		06-001	TE	ET	VERIFY THE FOLLOWING EQUIPMENT CONTROLS ARE SET TO DESIGNATED POSITIONS
					01. ON GROUND POWER SUPPLY-LTA-8 LDW410-82140, REMOTE-LOCAL SWITCH (A1S2) IS IN LOCAL LOCAL POWER CONTROL IS AT OFF MAIN POWER CB IS AT OFF
					02. ON EPS CHECKOUT CONTROLLER LDW410-82090, MAIN POWER CB NO1 IS AT OFF
					03. ON POWER SUPPLY DC ACE-S/C LDW410-11270-3, AC INPUT SWITCH S1 IS AT OFF DC OUTPUT SWITCH S3 IS AT OFF
		06-002	TE	QC	VERIFY ALL C AND S BAND EQUIPMENT AND INTER- CONNECTING CABLES ARE VALIDATED.
		06-003	TE	ET	CONNECT P364A OF CABLE LDW410-10864-1 LOCATED ON PLATFORM 2, NEAR COLUMN 6, TO 1364A OF LTA-8.
		06-004	TE	ET	CONNECT P364C OF CABLE LDW410-10865-1 LOCATED ON PLATFORM 2, NEAR COLUMN 8, TO 1364C OF LTA-8.
		06-005	TE	ET	CONNECT P1018 OF CABLE LDW410-10858-1 LOCATED ON PLATFORM 3, NEAR COLUMN 5, TO 11115 OF LTA-8.
		06-006	TE	ET	CONNECT P1149 OF CABLE LDW410-10859-1 LOCATED ON PLATFORM 1, NEAR COLUMN 1, TO 11149 OF LTA-8.
					GAEC QC NASA QA

DEV
SH II

VHF

J1018

J1

P1114B

J1101



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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		07-000			INSTALLATION OF CHAMBER B CFI AND COMM INTER FACE ELECTRICAL CABLE CONNECTIONS (982)
		07-001	TE	ET	VERIFY THE FOLLOWING EQUIPMENT CONTROLS ARE SET TO DESIGNATED POSITIONS. (559) ON GROUND POWER SUPPLY-LTA-8 LDW410-82140, REMOTE-LOCAL SWITCH (A1S2) IS IN LOCAL LOCAL POWER CONTROL IS AT OFF MAIN POWER CB IS AT OFF
					01. ON EPS CHECKOUT CONTROLLER LDW410-82090, (559) MAIN POWER CB NO. 1 IS AT OFF
					02. ON POWER SUPPLY DC ACE-S/C LDW410-11270-3, (559) MAIN POWER CIRCUIT BREAKER 'CB1' IS OFF.
		07-002	TE	ET	CONNECT P94 OF CABLE LDW410-10861-1 LOCATED (559) ON PLATFORM 2, NEAR COLUMN 7, TO J94 OF LTA-8 12-9-67
		07-003	TE	ET	CONNECT P1168 OF CABLE LDW410-10863-1 LOCATED (559) ON PLATFORM 1, NEAR COLUMN 1, TO J1168 OF 12-4-67 LTA-8.
					GAEC QC NASA QA NASA 38M
					QC. NOTE: VERIFIED P1168 + P94 DURING VERIFICATION OF HOOK UP ON OCP 36021. (559)

12-21-7
(559)

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
11/8/67 1820		08-000			INSTALLATION OF CHAMBER B OPERATIONS INSTRUMENTATION/LTA-8 INTERFACE ELECTRICAL CABLE CONNECTIONS
		08-001	TE	ET	CONNECT ^{EIA} (P93) OF CABLE LDW410-10866-1 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TC J93 OF LTA-8. 1318
		08-002	TE	ET	CONNECT (P36) OF CABLE LDW450-5225-1 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TC J36 GSE WINDOW OF LTA-8. 1318
					GAEC QC NASA QA

DEV
OUT TO
TPS-8237

SURVEILLANCE ONLY

SURVEILLANCE ONLY

11/9/67

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		09-000			INSTALLATION OF CHAMBER B SUPPLEMENTAL INSTRUMENTATION LTA-8 INTERFACE ELECTRICAL CABLE CONNECTIONS
0800 11/9/67		09-001	TE	ET	ON THERMAL CONTROL SYSTEM LSC410-12050-1, ENSURE MAGNETIC STARTERS ON A3, A8, A13, A18, A21 AND A27 ARE 'OFF'. 11-8-7 1318
		09-002	TE	ET	CONNECT P1, P2, AND P3 OF CABLE LDW450-5143-2 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TO J1, J2, AND J3 OF LTA-8, RESPECTIVELY. 11/9/67 38M
		09-003	TE	ET	CONNECT P4, P5, AND P6 OF CABLE LDW450-5143-3 LOCATED ON PLATFORM 2, NEAR COLUMN 4, TO J4, J5, AND J6 OF LTA-8, RESPECTIVELY. 11/11/67
		09-004	TE	ET	CONNECT P7, P8, AND P9 OF CABLE LDW450-5143-5 LOCATED ON PLATFORM 2, NEAR COLUMN 4, TO J7, J8, AND J9 OF LTA-8, RESPECTIVELY. 11/9/67
11-15-67		09-005	TE	ET	CONNECT P10, P11, AND P12 OF CABLE LDW450-5143-7 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TO J10, J11, AND J12 OF LTA-8, RESPECTIVELY. 11/11/67
		09-006	TE	ET	CONNECT P13, P14, AND P15 OF CABLE LDW450-5143-9 LOCATED ON PLATFORM 2, NEAR COLUMN 4, TO J13, J14, AND J15 OF LTA-8, RESPECTIVELY. 11/11/67
		09-007	TE	ET	CONNECT P16, P17, AND P18 OF CABLE LDW450-5143-11 LOCATED ON PLATFORM 2, NEAR COLUMN 4, TO J16, J17, AND J18 OF LTA-8, RESPECTIVELY. 11/11/67
		09-008	TE	ET	CONNECT P19, P20, AND P21 OF CABLE LDW450-5143-13 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TO J19, J20, AND J21 OF LTA-8, RESPECTIVELY. 11/11/67
		09-009	TE	ET	CONNECT P22, P23, AND P24 OF CABLE LDW450-5143-15 LOCATED ON PLATFORM 1, NEAR COLUMN 8, TO J22, J23, AND J24 OF LTA-8, RESPECTIVELY. 11/11/67
		09-010	TE	ET	CONNECT P25, P26, AND P27 OF CABLE LDW450-5143-17 LOCATED ON PLATFORM 1, NEAR COLUMN 4, TO J25, J26, AND J27 OF LTA-8, RESPECTIVELY. 11/11/67
		09-011	TE	ET	CONNECT P28, P29, AND P30 OF CABLE LDW450-5143-19 LOCATED ON PLATFORM 2, NEAR COLUMN 4, TO J28, J29, AND J30 OF LTA-8, RESPECTIVELY. 11/11/67
		09-012	TE	ET	CONNECT P31, P32, AND P33 OF CABLE LDW450-5143-21 LOCATED ON PLATFORM 2, NEAR COLUMN 4, TO J31, J32, AND J33 OF LTA-8, RESPECTIVELY. 11/11/67

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					-21 LOCATED ON PLATFORM 1, NEAR COLUMN 8, TO J31 , J32, AND J33 OF LTA-8, RESPECTIVELY.
09-013	TE	ET			CONNECT P34 , P35 , AND P36 OF CABLE LDW450-5143 -23 LOCATED ON PLATFORM 1, NEAR COLUMN 4, TO J34, J35, AND J36 OF LTA-8, RESPECTIVELY,
09-014	TE	ET			CONNECT P37 , P38 , AND P39 OF CABLE LDW450-5143 -25 LOCATED ON PLATFORM 1, NEAR COLUMN 8, TO J37, J38, AND J39 OF LTA-8, RESPECTIVELY.
09-015	TE	ET			CONNECT P40 , P41 , AND P42 OF CABLE LDW450-5143 -27 LOCATED ON PLATFORM 1, NEAR COLUMN 4, TO J40, J41, AND J42 OF LTA-8, RESPECTIVELY.
09-016	TE	ET			CONNECT P43 , P44 , AND P45 OF CABLE LDW450-5143 -29 LOCATED ON PLATFORM 2, NEAR COLUMN 4, TO J43, J44, AND J45 OF LTA-8, RESPECTIVELY.
09-017	TE	ET			CONNECT P46 , P47 , AND P48 OF CABLE LDW450-5143-31 LOCATED ON PLATFORM 2, NEAR COLUMN TO J46, J47, AND J48 OF LTA-8, RESPECTIVELY.
09-018	TE	ET			CONNECT P49 , P50 , AND P51 OF CABLE LDW450-5143 33 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TO J49, J50, AND J51 OF LTA-8, RESPECTIVELY.
09-019	TE	ET			CONNECT P52 , P53 , AND P54 OF CABLE LDW450-5143 -35 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TO J52, J53, AND J54 OF LTA-8, RESPECTIVELY.
09-020	TE	ET			CONNECT P55 , P56 , AND P57 OF CABLE LDW450-5143 -37 LOCATED ON PLATFORM 2, COLUMN 7, TO J55, J56, AND J57 OF LTA-8, RESPECTIVELY.
09-021	TE	ET			CONNECT P16 , P17 , AND P18 OF CABLE LDW450-5162 -1 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO J16, J17, AND J18 OF LTA-8, RESPECTIVELY.
09-022	TE	ET			CONNECT P19 , P20 , AND P21 OF CABLE LDW450-5162 -3 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO J19, J20, AND J21 OF LTA-8, RESPECTIVELY.
09-023	TE	ET			CONNECT P22 , P23 , AND P24 OF CABLE LDW450-5162 -5 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO J22, J23, AND J24 OF LTA-8, RESPECTIVELY.
09-024	TE	ET			CONNECT P25 , P26 , AND P27 OF CABLE LDW450-5162 -7 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					J25, J26, AND J27 OF LTA-8, RESPECTIVELY.
					^{E14} ^{E14} ^{E14} CONNECT P30, P31, AND P32 OF CABLE LDW450-514-1 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO J30, J31, AND J32 OF LTA-8, RESPECTIVELY.
					^{E13} ^{E13} ^{E13} CONNECT P13, P14, AND P15 OF CABLE LDW450-513-3 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO J13, J14, AND J15 OF LTA-8, RESPECTIVELY.
					^{E14} ^{E14} CONNECT P33 AND P34 OF CABLE LDW450-5166-1 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO J33 AND J34 OF LTA-8, RESPECTIVELY.
					CONNECT P801 OF CABLE LDW450-5194-1 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TO J801 OF LTA-8.
					CONNECT P802 OF CABLE LDW450-5194-3 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TO J802 OF LTA-8.
					CONNECT P803 OF CABLE LDW450-5194-5 LOCATED ON PLATFORM 1, NEAR COLUMN 4, TO J803 OF LTA-8.
					CONNECT P804 AND P805 OF CABLE LDW450-5206-1 LOCATED ON PLATFORM 2, NEAR COLUMN 0, TO J804 AND J805 RESPECTIVELY OF LTA-8.
					CONNECT P55, P56, AND P57 OF CABLE LDW450-5165-1 LOCATED ON PLATFORM 1, NEAR COLUMN 8, TO J55, J56, AND J57 OF LTA-8, RESPECTIVELY.
					CONNECT P58, P59, AND P60 OF CABLE LDW450-5165-3 LOCATED ON PLATFORM 1, NEAR COLUMN 8, TO J58, J59, AND J60 OF LTA-8, RESPECTIVELY.
					CONNECT P38 OF CABLE LDW450-5275-1 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO J38.
					CONNECT P64, P65, AND P66 OF CABLE LDW450-5239-1 LOCATED ON PLATFORM 2, NEAR COLUMN 4, TO J64, J65, AND J66 RESPECTIVELY.
					CONNECT P67, P68, AND P69 OF CABLE LDW450-5239-3 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO J67, J68, AND J69 RESPECTIVELY.
					CONNECT P70, P71, AND P72 OF CABLE LDW450-5239-5 LOCATED ON PLATFORM 2, NEAR COLUMN 2, TO J70, J71, AND J72 RESPECTIVELY.

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		09-038	TE	ET	CONNECT PX, PX, AND PX OF CABLE LDW450-4 741 5238-7 LOCATED ON PLATFORM 2, NEAR COLUMN 2 TO 5238, 1357 AND 1357 RESPECTIVELY. GAEC QC NASA QA

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		10-000			INSTALLATION OF CHAMBER B TEMPERATURE CONTROL HEATER LTA-8 ELECTRICAL CABLE CONNECTIONS
		10-001	TE	ET	ENSURE MAGNETIC STARTERS ON A3, A8, A13, A18, A21 AND A27 ARE 'OFF'.
		10-002	TE	ET	CONNECT P38 OF CABLE LDW410-10909-1 LOCATED PLATFORM 1, NEAR COLUMN 1, TO P38 OF LTA-8.
		10-003	TE	ET	CONNECT P39 OF CABLE LDW410-10911-1 LOCATED PLATFORM 2, NEAR COLUMN 1, TO P39 OF LTA-8.
		10-004	TE	ET	CONNECT P40 OF CABLE LDW410-10912-1 LOCATED PLATFORM 2, NEAR COLUMN 1, TO P40 OF LTA-8.
		10-005	TE	ET	CONNECT P41 OF CABLE LDW410-10913-1 LOCATED PLATFORM 1, NEAR COLUMN 5, TO P41 OF LTA-8.
		10-006	TE	ET	CONNECT P42 OF CABLE LDW410-10914-1 LOCATED PLATFORM 1, NEAR COLUMN 5, TO P42 OF LTA-8.
		10-007	TE	ET	CONNECT P43 OF CABLE LDW410-10915-1 LOCATED PLATFORM 1, NEAR COLUMN 4, TO P43 OF LTA-8.
		10-008	TE	ET	CONNECT P44 OF CABLE LDW410-10916-1 LOCATED PLATFORM 1, NEAR COLUMN 3, TO P44 OF LTA-8.
	X	10-009	TE	ET	CONNECT P45 OF CABLE LDW410-10917-1 LOCATED PLATFORM 3, NEAR COLUMN 7, TO P45 OF LTA-8.
	X	10-010	TE	ET	CONNECT P46 OF CABLE LDW410-10918-1 LOCATED PLATFORM 3, NEAR COLUMN 7, TO P46 OF LTA-8.
		10-011	TE	ET	CONNECT P47 OF CABLE LDW410-10919-1 LOCATED PLATFORM 1, NEAR COLUMN 5, TO P47 OF LTA-8.
		10-012	TE	ET	CONNECT P48 OF CABLE LDW410-10921-1 LOCATED PLATFORM 1, NEAR COLUMN 7, TO P48 OF LTA-8.
		10-013	TE	ET	CONNECT P52 OF CABLE LDW410-10925-1 LOCATED PLATFORM 2, NEAR COLUMN 3, TO P52 OF LTA-8.
		10-014	TE	ET	CONNECT P54 OF CABLE LDW410-10927-1 LOCATED PLATFORM 2, NEAR COLUMN 3, TO P54 OF LTA-8.
		10-015	TE	ET	CONNECT P55 OF CABLE LDW410-10928-1 LOCATED PLATFORM 1, NEAR COLUMN 2, TO P55 OF LTA-8.
		10-016	TE	ET	CONNECT P69 OF CABLE LDW410-10947-1 LOCATED

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					PLATFORM 1, NEAR COLUMN G, TO P69 OF LTA-8.
		10-017	TE	ET	CONNECT P70 OF CABLE LDW410-10948-1 LOCATED ON PLATFORM 1, NEAR COLUMN 7, TO P70 OF LTA-8. 1-26-68 1357
		10-018	TE	ET	CONNECT P71 OF CABLE LDW410-10949-1 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TO P71 OF LTA-8. 529
		10-019	TE	ET	CONNECT P72 OF CABLE LDW410-10958-1 LOCATED ON PLATFORM 1, NEAR COLUMN 3, TO P72 OF LTA-8. 1-26-68 1357
		10-020	TE	ET	CONNECT P73 OF CABLE LDW410-10959-1 LOCATED ON PLATFORM 1, NEAR COLUMN 7, TO P73 OF LTA-8. 1-26-68 1357
		10-021	TE	ET	CONNECT P74 OF CABLE LDW410-10961-1 LOCATED ON PLATFORM 1, NEAR COLUMN 2, TO P74 OF LTA-8. 1-26-68 1357
					GAEC QC ... 209 ... NASA CA ... 209

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		11-000			INSTALLATION OF CHAMBER B THERMAL SHIELD SKIN HEATER LTA-8 ELECTRICAL CONNECTIONS
		11-001	TE	QC	VERIFY ALL THERMAL SHIELD HEATER EQUIPMENT INTERCONNECTING CABLES ARE VALIDATED. (529)
		11-002	TE	ET	CONNECT P1 OF CABLE LDW410-10868-1 LOCATED PLATFORM 2, NEAR COLUMN 3, TC P1 OF LTA-8. (529) 1-25-68
		11-003	TE	ET	CONNECT P2 OF CABLE LDW410-10869-1 LOCATED ON PLATFORM 1, NEAR COLUMN 2, TC P2 OF LTA-8. (357) 1-26-68
		11-004	TE	ET	CONNECT P3 OF CABLE LDW410-10871-1 LOCATED ON PLATFORM 1, NEAR COLUMN 4, TC P3 OF LTA-8. (357) 1-26-68
		11-005	TE	ET	CONNECT P4 OF CABLE LDW410-10872-1 LOCATED ON PLATFORM 2, NEAR COLUMN 1, TC P4 OF LTA-8. (529) 1-26-68
		11-006	TE	ET	CONNECT P5 OF CABLE LDW410-10873-1 LOCATED ON PLATFORM 2, NEAR COLUMN 1, TC P5 OF LTA-8. (529) 1-26-68
		11-007	TE	ET	CONNECT P6 OF CABLE LDW410-10874-1 LOCATED ON PLATFORM 2, NEAR COLUMN 8, TC P6 OF LTA-8. (529) 1-26-68
		11-008	TE	ET	CONNECT P7 OF CABLE LDW410-10875-1 LOCATED ON PLATFORM 2, NEAR COLUMN 8, TC P7 OF LTA-8. (529) 1-26-68
		11-009	TE	ET	CONNECT P8 OF CABLE LDW410-10876-1 LOCATED ON PLATFORM 2, NEAR COLUMN 1, TC P8 OF LTA-8. (529) 1-26-68
		11-010	TE	ET	CONNECT P9 OF CABLE LDW410-10877-1 LOCATED ON PLATFORM 3, NEAR COLUMN 8, TC P9 OF LTA-8. (529) 1-26-68
		11-011	TE	ET	CONNECT P10 OF CABLE LDW410-10878-1 LOCATED ON PLATFORM 2, NEAR COLUMN 8, TC P10 OF LTA-8. (529) 1-26-68
		11-012	TE	ET	CONNECT P11 OF CABLE LDW410-10879-1 LOCATED ON PLATFORM 2, NEAR COLUMN 3, TC P11 OF LTA-8. (529) 1-26-68
		11-013	TE	ET	CONNECT P12 OF CABLE LDW410-10881-1 LOCATED ON PLATFORM 2, NEAR COLUMN 6, TC P12 OF LTA-8. (357) 1-26-68
		11-014	TE	ET	CONNECT P13 OF CABLE LDW410-10882-1 LOCATED ON PLATFORM 1, NEAR COLUMN 6, TC P13 OF LTA-8. (357) 1-26-68
		11-015	TE	ET	CONNECT P14 OF CABLE LDW410-10883-1 LOCATED ON PLATFORM 2, NEAR COLUMN 5, TC P14 OF LTA-8. (357) 1-26-68
		11-016	TE	ET	CONNECT P15 OF CABLE LDW410-10884-1 LOCATED ON

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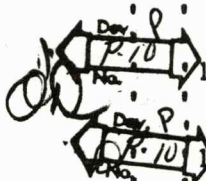
TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					PLATFORM 3, NEAR COLUMN D, TC P15 OF LTA-8.
	✓ 11-017		TE	ET	CONNECT P16 OF CABLE LDW410-10885-1 LOCATED ON PLATFORM 2, NEAR COLUMN 4, TO P16 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}
	11-018		TE	ET	CONNECT P17 OF CABLE LDW410-10886-1 LOCATED ON PLATFORM 2, NEAR COLUMN 1, TC P17 OF LTA-8. ¹⁻²⁶⁻⁶⁸ ₁₃₁₈
	11-019		TE	ET	CONNECT P18 OF CABLE LDW410-10887-1 LOCATED ON PLATFORM 2, NEAR COLUMN 1, TO P18 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1329N}
	✓ 11-020		TE	ET	CONNECT P19 OF CABLE LDW410-10888-1 LOCATED ON PLATFORM 1, NEAR COLUMN 1, TC P19 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1339N}
	11-021		TE	ET	CONNECT P20 OF CABLE LDW410-10889-1 LOCATED ON PLATFORM 1, NEAR COLUMN 8, TC P20 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1331N}
	11-022		TE	ET	CONNECT P21 OF CABLE LDW410-10891-1 LOCATED ON PLATFORM 3, NEAR COLUMN 6, TC P21 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}
	11-023		TE	ET	CONNECT P22 OF CABLE LDW410-10892-1 LOCATED ON PLATFORM 1, NEAR COLUMN 6, TC P22 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}
	11-024		TE	ET	CONNECT P23 OF CABLE LDW410-10893-1 LOCATED ON PLATFORM 1, NEAR COLUMN 5, TC P23 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}
	11-025		TE	ET	CONNECT P24 OF CABLE LDW410-10894-1 LOCATED ON PLATFORM 1, NEAR COLUMN 4, TC P24 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}
	11-026		TE	ET	CONNECT P25 OF CABLE LDW410-10895-1 LOCATED ON PLATFORM 1, NEAR COLUMN 4, TC P25 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}
	✓ 11-027		TE	ET	CONNECT P26 OF CABLE LDW410-10896-1 LOCATED ON PLATFORM 1, NEAR COLUMN 2, TC P26 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}
	✓ 11-028		TE	ET	CONNECT P27 OF CABLE LDW410-10897-1 LOCATED ON PLATFORM 1, NEAR COLUMN 1, TC P27 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}
	✓ 11-029		TE	ET	CONNECT P28 OF CABLE LDW410-10898-1 LOCATED ON PLATFORM 3, NEAR COLUMN 2, TO P28 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}
	11-030		TE	ET	CONNECT P29 OF CABLE LDW410-10899-1 LOCATED ON PLATFORM 1, NEAR COLUMN 6, TC P29 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}
	✓ 11-031		TE	ET	CONNECT P30 OF CABLE LDW410-10901-1 LOCATED ON PLATFORM 1, NEAR COLUMN 2, TC P30 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}
	✓ 11-032		TE	ET	CONNECT P31 OF CABLE LDW410-10902-1 LOCATED ON PLATFORM 1, NEAR COLUMN 1, TC P31 OF LTA-8. ¹⁻²⁶⁻⁶⁸ _{1357N}

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					1-26-68
	11-033		TE	ET	CONNECT P32 OF CABLE LDW410-10903-1 LOCATED ON PLATFORM 1, NEAR COLUMN 8, TO P32 OF LTA-8. 1053
	11-034		TE	ET	CONNECT P33 OF CABLE LDW410-10904-1 LOCATED ON PLATFORM 1, NEAR COLUMN 7, TO P33 OF LTA-8. 1-26-68
	11-035		TE	ET	CONNECT P34 OF CABLE LDW410-10905-1 LOCATED ON PLATFORM 1, NEAR COLUMN 6, TO P34 OF LTA-8. 1-26-68
	✓ 11-036		TE	ET	CONNECT P35 OF CABLE LDW410-10906-1 LOCATED ON PLATFORM 1, NEAR COLUMN 5, TO P35 OF LTA-8. 1-26-68
	✓ 11-037		TE	ET	CONNECT P36 OF CABLE LDW410-10907-1 LOCATED ON PLATFORM 1, NEAR COLUMN 4, TO P36 OF LTA-8. 1-26-68
	✓ 11-038		TE	ET	CONNECT P37 OF CABLE LDW410-10908-1 LOCATED ON PLATFORM 1, NEAR COLUMN 3, TO P37 OF LTA-8. 1-26-68
	✓ 11-039		TE	ET	CONNECT P56 OF CABLE LDW410-10929-1 LOCATED ON PLATFORM 3, NEAR COLUMN 3, TO P56 OF LTA-8. 1-26-68
	11-040		TE	ET	CONNECT P65 OF CABLE LDW410-10939-1 LOCATED ON PLATFORM 2, NEAR COLUMN 4, TO P65 OF LTA-8. 1-26-68
	✓ 11-041		TE	ET	CONNECT P66 OF CABLE LDW410-10941-1 LOCATED ON PLATFORM 3, NEAR COLUMN 2, TO P66 OF LTA-8. 1-26-68
	✓ 11-042		TE	ET	CONNECT P67 OF CABLE LDW410-10942-1 LOCATED ON PLATFORM 3, NEAR COLUMN 2, TO P67 OF LTA-8. 1-26-68
	✓ 11-043		TE	ET	CONNECT P68 OF CABLE LDW410-10943-1 LOCATED ON PLATFORM 1, NEAR COLUMN 5, TO P68 OF LTA-8. 1-26-68
	✓ 11-044		TE	ET	CONNECT P75 OF CABLE LDW410-10991 LOCATED ON PLATFORM 2, NEAR COLUMN 3, TO P75 OF LTA-8. 1-26-68
	✓ 11-045		TE	ET	CONNECT P76 OF CABLE LDW410-10992 LOCATED ON PLATFORM 2, NEAR COLUMN 8, TO P76 OF LTA-8. 1-26-68
	11-046		TE	ET	CONNECT P77 OF CABLE LDW410-10993 LOCATED ON PLATFORM 3, NEAR COLUMN 6, TO P77 OF LTA-8. 1-26-68
	11-047		TE	ET	CONNECT P78 OF CABLE LDW410-10994 LOCATED ON PLATFORM 2, NEAR COLUMN 4, TO P78 OF LTA-8. 1-26-68
	11-048		TE	ET	CONNECT P79 OF CABLE LDW410-10995 LOCATED ON PLATFORM 2, NEAR COLUMN 7, TO P79 OF LTA-8. 1-26-68



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TIME	CH	SEQ	C/D CTL	C/D STTN	DESCRIPTION/INSTRUCTION
		12-000			INSTALLATION OF CHAMBER B GUARD HEATER AND SENSOR LTA-8 ELECTRICAL CABLE CONNECTIONS
		12-001	TE	ET	ENSURE MAGNETIC STARTERS ON A3, A8, A13, A21 AND A27 ARE OFF
		12-002	TE	ET	CONNECT P49 OF CABLE LDW410-10922-1 LOCATED ON PLATFORM 1, NEAR COLUMN 1, TO P49 OF LTA-8
		12-003	TE	ET	CONNECT P50 OF CABLE LDW410-10923-1 LOCATED ON PLATFORM 1, NEAR COLUMN 8, TO P50 OF LTA-8
		12-004	TE	ET	CONNECT P51 OF CABLE LDW410-10924-1 LOCATED ON PLATFORM 1, NEAR COLUMN 6, TO P51 OF LTA-8
		12-005	TE	ET	CONNECT P53 OF CABLE LDW410-10926-1 LOCATED ON PLATFORM 1, NEAR COLUMN 4, TO P53 OF LTA-8
		12-006	TE	ET	CONNECT P57 OF CABLE LDW410-10931-1 LOCATED ON PLATFORM 1, NEAR COLUMN 1, TO P57 OF CABLE LDW450-5205-5
		12-007	TE	ET	CONNECT P58 OF CABLE LDW410-10932-1 LOCATED ON PLATFORM 1, NEAR COLUMN 1, TO P58 OF CABLE LDW450-5205-1
		12-008	TE	ET	CONNECT P59 OF CABLE LDW410-10933-1 LOCATED ON PLATFORM 1, NEAR COLUMN 8, TO P59 OF CABLE LDW450-5205-15
		12-009	TE	ET	CONNECT P60 OF CABLE LDW410-10934-1 LOCATED ON PLATFORM 1, NEAR COLUMN 8, TO P60 OF CABLE LDW450-5205-7
		12-010	TE	ET	CONNECT P61 OF CABLE LDW410-10935-1 LOCATED ON PLATFORM 1, NEAR COLUMN 6, TO P61 OF CABLE LDW450-5205-9
		12-011	TE	ET	CONNECT P62 OF CABLE LDW410-10936-1 LOCATED ON PLATFORM 1, NEAR COLUMN 5, TO P62 OF CABLE LDW450-5205-11
		12-012	TE	ET	CONNECT P63 OF CABLE LDW410-10937-1 LOCATED ON PLATFORM 1, NEAR COLUMN 4, TO P63 OF CABLE LDW450-5205-13
		12-013	TE	ET	CONNECT P64 OF CABLE LDW410-10938-1 LOCATED ON PLATFORM 1, NEAR COLUMN 3, TO P64 OF CABLE LDW450-5205-3

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		12-014	TE	ET	VERIFY THE FOLLOWING THERMAL CONTROL SYSTEM EQUIPMENT CONTROLS ARE SET IN DESIGNATED POSITIONS, 01. ON GUARD HEATER CONTROL RACK ASSEMBLIES A22, A23, A24, AND A25, VERIFY CB'S (120 VOLTS AC, 28 VOLTS DC, AND 125 VOLTS DC) ARE IN THE OFF POSITION.
		12-015	TE	ET	AT CABLE 'W49', LDW938-10654 PROCEED AS FOLLOWS. 01. CONNECT E151 TO CABLE LDW938-13010-59 AND MATE P214 TO GC-830D-1 ON GH LDW938-10494 02. CONNECT E133 TO CABLE LDW938-13010-31 AND MATE P196 TO GC-830D-1 ON GH LDW938-10465 03. CONNECT F138 TO CABLE LDW938-13010-41 AND MATE P201 TO GC-830D-1 ON GH LDW938-10475 04. CONNECT E126 TO CABLE LDW938-13010-17 AND MATE P189 TO GC-830D-1 ON GH LDW938-10458 05. CONNECT E145 TO CABLE LDW938-13010-47 AND MATE P208 TO GC-830D-1 ON GH LDW938-10485 06. CONNECT E127 TO CABLE LDW938-13010-19 AND MATE P190 TO GC-830D-1 ON GH LDW938-10459 07. CONNECT E135 TO CABLE LDW938-13010-35 AND MATE P198 TO GC-830D-1 ON GH LDW938-10467 08. CONNECT E152 TO CABLE LDW938-13010-61 AND MATE P215 TO GC-830D-1 ON GH LDW938-10468 09. CONNECT E153 TO CABLE LDW938-13010-63 AND MATE P216 TO GC-830D-1 ON GH LDW938-10489
		12-016	TE	ET	AT CABLE 'W50' LDW938-10655 PERFORM THE FOLLOWING 01. CONNECT E120 TO CABLE LDW938-13010-5 AND MATE P183 TO GC-830D-1 ON GH LDW938-10452 02. CONNECT E124 TO CABLE LDW938-13010-13 AND MATE P187 TO GC-830D-1 ON GH LDW938-10456

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					03. CONNECT E125 TO CABLE LDW938-13010-15 AND MATE P188 TO GC-830D-1 ON GH LDW938-10457
					04. CONNECT E139 TO CABLE LDW938-13010-43 AND MATE P202 TO GC-830D-1 ON GH LDW938-10476
					05. CONNECT E132 TO CABLE LDW938-13010-29 AND MATE P195 TO GC-830D-1 ON GH LDW938-10464
					06. CONNECT E144 TO CABLE LDW938-13010-45 AND MATE P207 TO GC-830D-1 ON GH LDW938-10483
					07. CONNECT E147 TO CABLE LDW938-13010-51 AND MATE P210 TO GC-830D-1 ON GH LDW938-10488
					08. CONNECT E134 TO CABLE LDW938-13010-33 AND MATE P197 TO GC-830D-1 ON GH LDW938-10466
					09. CONNECT E121 TO CABLE LDW938-13010-7 AND MATE P184 TO GC-830D-1 ON GH LDW938-10453
					10. CONNECT E122 TO CABLE LDW938-13010-9 AND MATE P185 TO GC-830D-1 ON GH LDW938-10454
		12-017	TE	ET	AT CABLE 'W51' LDW938-10656 PERFORM THE FOLLOWING.
					01. CONNECT E123 TO CABLE LDW938-13010-11 AND MATE P186 TO GC-830D-1 ON GH LDW938-10455
					02. CONNECT E129 TO CABLE LDW938-13010-23 AND MATE P192 TO GC-830D-1 ON GH LDW938-10461
					DELETED 03. CONNECT E130 TO CABLE LDW938-13010-23 AND MATE P193 TO GC-830D-1 ON GH LDW938-10462
					04. CONNECT E146 TO CABLE LDW938-13010-49 AND MATE P209 TO GC-830D-1 ON GH LDW938-10486
					05. CONNECT E131 TO CABLE LDW938-13010-27 AND MATE P194 TO GC-830D-1 ON GH LDW938-10463
					06. CONNECT E128 TO CABLE LDW938-13010-21 AND MATE P191 TO GC-830D-1 ON GH LDW938-10460
					07. CONNECT E150 TO CABLE LDW938-13010-57 AND MATE P213 TO GC-830D-1 ON GH LDW938-10492

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TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		12-018	TE	ET	AT CABLE 'W53' LDW938-10658 PERFORM THE FOLLOWING.
					01. CONNECT E118 TO CABLE LDW938-13010-1 AND MATE P181 TO GC-830D-1 ON GH LDW938-10450 1345
					02. CONNECT E119 TO CABLE LDW938-13010-3 AND MATE P182 TO GC-830D-1 ON GH LDW938-10451 1345 4/2/68
					03. CONNECT E148 TC CABLE LDW938-13010-53 AND MATE P211 TO GC-830D-1 ON GH LDW938-10490 1345
					04. CONNECT E149 TC CABLE LDW938-13010-55 AND MATE P212 TO GC-830D-1 ON GH LDW938-10491 1345
					05. CONNECT E137 TC CABLE LDW938-13010-39 AND MATE P200 TO GC-830D-1 ON GH LDW938-10472 1345
					06. CONNECT E136 TC CABLE LDW938-13010-37 AND MATE P199 TO GC-830D-1 ON GH LDW938-10470 1345
		12-019	TE	ET	AT CABLE LDW450-5205-1 MATE THE FOLLOWING.
					01. J1A TO P1 OF CABLE LDW450-5202-3 1320 1319 2/9/68
					02. J1B TO P1 OF CABLE LDW450-5203-19 1320 1319 2/9/68
					03. J2A TO P1 OF CABLE LDW450-5203-19 1320 1319 2/9/68
					04. J2B TO P1 OF CABLE LDW450-5204-39 1320 1319 2/9/68
					05. J3A TO P1 OF CABLE LDW450-5202-17 1320 1319 2/9/68
					06. J3B TO P2 OF CABLE LDW450-5144-1 1320 1319 2/9/68
					07. J4A TO P1 OF CABLE LDW450-5202-45 1320 1319 2/9/68
					08. J4B TO P1 OF CABLE LDW450-5204-63 741 2/9/68
					09. J5A TO P1 OF CABLE LDW450-5202-43 1320 1319 2/9/68
					10. J5B TO P1 OF CABLE LDW450-5204-61 1320 1319 2/9/68
		12-020	TE	ET	AT CABLE LDW450-5205-3 MATE THE FOLLOWING.
					01. J1A TO P1 OF CABLE LDW450-5202-21 1320 1319 2/9/68
					02. J1B TO P4 OF CABLE LDW450-5144-1 1320 1319 2/9/68

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OCP-B-63005 LTA-8

TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					03. J5A TO P1 OF CABLE LDW450-5202-19 1320 2/1/68
					04. J5B TO P3 OF CABLE LDW450-5144-1 1319 2/1/68
		12-021	TE	ET	AT CABLE LDW450-5205-5 MATE THE FOLLOWING.
					01. J3A TO P1 OF CABLE LDW450-5202-13 741 2/1/68
					02. J3B TO P1 OF CABLE LDW450-5204-11 741 2/1/68
					03. J4A TO P1 OF CABLE LDW450-5202-23 741 2/1/68
					04. J4B TO P1 OF CABLE LDW450-5204-15 741 2/1/68
					05. J5A TO P1 OF CABLE LDW450-5203-17 1320 2/1/68
					06. J5B TO P1 OF CABLE LDW450-5204-37 1320 2-9-68
		12-022	TE	ET	AT CABLE LDW450-5205-7 MATE THE FOLLOWING.
					01. J1A TO P1 OF CABLE LDW450-5202-37 741 2/1/68
					02. J1B TO P1 OF CABLE LDW450-5204-55 741 2/1/68
					03. J2A TO P1 OF CABLE LDW450-5202-5 1320 2-9-68
					04. J2B TO P1 OF CABLE LDW450-5204-3 741 2/1/68
					05. J3A TO P1 OF CABLE LDW450-5202-15 1320 2/1/68
					06. J3B TO P1 OF CABLE LDW450-5204-13 1320 2/1/68
					07. J4A TO P1 OF CABLE LDW450-5203-7 1354
					08. J4B TO P1 OF CABLE LDW450-5204-27 1354
					09. J5A TO P1 OF CABLE LDW450-5203-9 741 2/1/68
					10. J5B TO P1 OF CABLE LDW450-5204-29 741 2/1/68
		12-023	TE	ET	AT CABLE LDW450-5205-9 MATE THE FOLLOWING.
					01. J4A TO P1 OF CABLE LDW450-5203-11 741 2/1/68
					02. J4B TO P1 OF CABLE LDW450-5204-31 741 2/1/68
					03. J5A TO P1 OF CABLE LDW450-5203-23 1354

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PROJECT APCLLO

DATE 08/24/67

PAGE 2-29
OCP-8-63005 LTA-8

TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					04. J5B TO P1 OF CABLE LDW450-5204-43 ¹³⁵⁴
					05. J6A TO P1 OF CABLE LDW450-5201-1 ¹³⁵⁴ 2/12/68
					06. J6B TO P1 OF CABLE LDW450-5144-1 ¹³⁵⁴ 2/9-68
		12-024	TE	ET	AT CABLE LDW450-5205-11 MATE THE FOLLOWING.
					01. J1A TO P1 OF CABLE LDW450-5203-25
					02. J1B TO P1 OF CABLE LDW450-5204-43 ⁷⁴¹ 2/7/68
					03. J2A TO P1 OF CABLE LDW450-5202-7 ¹³⁵⁴ 2-9-68
					04. J2B TO P1 OF CABLE LDW450-5204-5 ⁷⁴¹ 2/7/68
					05. J4A TO P1 OF CABLE LDW450-5202-9 ⁷⁴¹ 2/7/68
					06. J4B TO P1 OF CABLE LDW450-5204-7 ⁷⁴¹ 2/7/68
					07. J5A TO P1 OF CABLE LDW450-5203-21 ¹³⁵⁴
					08. J5B TO P1 OF CABLE LDW450-5204-41 ¹³⁵⁴
					09. J6A TO P1 OF CABLE LDW450-5202-27 ¹³²⁰ 2-9-68
					10. J6B TO P1 OF CABLE LDW450-5204-19 ¹³²⁰ 2-9-68
		12-025	TE	ET	AT CABLE LDW450-5205-13 MATE THE FOLLOWING.
					01. J1A TO P1 OF CABLE LDW450-5203-1 ⁷⁴¹ 2/7/68
					02. J1B TO P1 OF CABLE LDW450-5204-21 ¹³⁵⁴ 2-9-68
					03. J2A TO P1 OF CABLE LDW450-5203-3 ⁷⁴¹ 2/7/68
					04. J2B TO P1 OF CABLE LDW450-5204-33 ²³ 209
					05. J4A TO P1 OF CABLE LDW450-5202-39 ⁷⁴¹ 2/7/68
					06. J4B TO P1 OF CABLE LDW450-5204-57 ¹³⁵⁴ 2-9-68
					07. J5A TO P1 OF CABLE LDW450-5202-41 ⁷⁴¹ 2/7/68
					08. J5B TO P1 OF CABLE LDW450-5204-59 ¹³²⁰ 2-9-68
		12-026	TE	ET	AT CABLE LDW450-5205-15 MATE THE FOLLOWING.

DELETED
DEV SH II

DEV SH H Compk
2/7/68
~~2/7/68~~

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PAGE 2-30

500

TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					01. J2A TO P1 OF CABLE LDW450-5203-5 VOID
					02. J2B TO P1 OF CABLE LDW450-5204-25 1320 379 2-9-68
					03. J3A TO P1 OF CABLE LDW450-5203-13 741 2/7/8
					04. J3B TO P1 OF CABLE LDW450-5204-33 1320 159 2-9-68
					05. J4A TO P1 OF CABLE LDW450-5203-15 1320 379 2-9-68
					06. J4B TO P1 OF CABLE LDW450-5204-35 1320 741 2-9-68
					07. J5A TO P1 OF CABLE LDW450-5202-25 741 2/7/8
					08. J5B TO P1 OF CABLE LDW450-5204-17 1320 159 2-9-68
					09. J6A TO P1 OF CABLE LDW450-5202-11 741 2/7/8
					10. J6B TO P1 OF CABLE LDW450-5204-9 741 2/7/8
					GAEC QC 1200 NASA QA 381

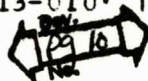
PROJECT APCLLO

DATE 08/24/67

PAGE 2-31
OCP-B-63005 LTA-8

TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		13-000			INSTALLATION OF CHAMBER B THERMAL VACUUM SERVICE FLUID LINE CONNECTIONS TO LTA-8 PROPPELLANT SECTION 982
		13-001	TE	MT	VERIFY THE FOLLOWING EQUIPMENT CONTROLS ARE SET TO DESIGNATED POSITIONS.
					01. ON GN2 FACILITY SUPPLY LINE GN2-U-3000, VALVE FV-20 IN THE OFF POSITION 12/4/67
					02. ON WATER GLYCOL FACILITY SUPPLY LINE, VALVE V-101 IN THE OFF POSITION 12/4/67
					03. ON REFRIGERANT SUPPLY UNIT LDW430-61013-1 VALVE MV-3 IN THE OFF POSITION 12/4/67
		13-002	TE	MT	CONNECT GUARD HEATER LDW938-10450 LOCATED ON PLATFORM LEVEL 1, NEAR COLUMN D, TO GP9453 OF LTA-8. 1345
		13-003	TE	MT	CONNECT GUARD HEATER LDW938-10451 LOCATED ON PLATFORM LEVEL 2, NEAR COLUMN D, TO GP9443 OF LTA-8. 1345
		13-004	TE	MT	CONNECT GUARD HEATER LDW938-10452 LOCATED ON PLATFORM LEVEL 1, NEAR COLUMN H, TO GP9452 OF LTA-8. 12/4/67
		13-005	TE	MT	CONNECT GUARD HEATER LDW938-10453 LOCATED ON PLATFORM LEVEL 2, NEAR COLUMN G, TO GP9442 OF LTA-8. 1345
		13-006	TE	MT	CONNECT GUARD HEATER LDW938-10454 LOCATED ON PLATFORM LEVEL 2, NEAR COLUMN G, TO GQ9453 OF LTA-8. 12/4/67
		13-007	TE	MT	CONNECT GUARD HEATER LDW938-10455 LOCATED ON PLATFORM LEVEL 1, NEAR COLUMN F, TO GQ9443 OF LTA-8. 12-1-67
		13-008	TE	MT	CONNECT GUARD HEATER LDW938-10456 LOCATED ON PLATFORM LEVEL 2, NEAR COLUMN H, TO GQ9452 OF LTA-8. 12/4/67
		13-009	TE	MT	CONNECT GUARD HEATER LDW938-10457 LOCATED ON PLATFORM LEVEL 2, NEAR COLUMN A, TO GQ9442 OF LTA-8. 12/4/67
		13-010	TE	MT	CONNECT GUARD HEATER LDW938-10462 LOCATED ON

Dev



DELETE

Heater not used 28 Jan 68

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PAGE 2-32

TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					PLATFORM LEVEL 1, NEAR COLUMN G, TO GQ9406 OF LTA-8.
					GAEC QC NASA QA
					APR 15 1968

GAEC QC NASA QA

APR 15 1968



2001

PROJECT APOLLO

DATE 08/24/67

PAGE 2-33
OCP-B-63005 LTA-8

TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
		14-000			INSTALLATION OF CHAMBER B LN2 SERVICE FLUID LINE CONNECTIONS TO CM TUNNEL SIMULATOR AND INTERSTAGE BAFFLE SIMULATOR CF LTA-8. 4/16/68 982
		14-001	TE	MT	VERIFY THE FOLLOWING EQUIPMENT CONTROLS ARE SET IN DESIGNATED POSITIONS. 4/16/68 982
					01. ON GN2 FACILITY SUPPLY GN2-U-3000 VALVE IN THE CLOSED POSITION 4/20/67 529 Surveillance only
					02. ON THERMAL SIMULATOR CONTROL UNIT LDW430-11470 VALVE SOV1 IN THE CLOSED POSITION 4/20/67 529 Surveillance only
		14-002	TE	MT	CONNECT FLUID LINE LDW430-64654-1 LOCATED ON PLATFORM LEVEL 1, NEAR COLUMN 3, TO ISS INLET CONNECTION OF LTA-8. 4-20-67 529 Surveillance only
		14-003	TE	MT	CONNECT FLUID LINE LDW430-64654-2 LOCATED ON PLATFORM LEVEL 3, NEAR COLUMN 3, TO CMTS INLET CONNECTION OF LTA-8. 4-20-67 529 Surveillance only
		14-004	TE	MT	CONNECT FLUID LINE LDW430-64654-3 LOCATED ON PLATFORM LEVEL 1, NEAR COLUMN 3, TO ISS OUTLET CONNECTION OF LTA-8. 4-20-67 529 Surveillance only
		14-005	TE	MT	CONNECT FLUID LINE LDW430-64654-4 LOCATED ON PLATFORM LEVEL 3, NEAR COLUMN 3, TO CMTS OUTLET CONNECTION OF LTA-8. 4-20-67 529 Surveillance only
		14-006	TE	MT	CONNECT FLUID LINE LDW430-64654-7, LOCATED ON PLATFORM LEVEL 3, NEAR COLUMN 2, TO GWS INLET CONNECTION OF LTA-8. 4-22-67 529 Surveillance only
		14-007	TE	MT	CONNECT FLUID LINE LDW430-64654-8, LOCATED ON PLATFORM LEVEL 3, NEAR COLUMN 2, TO GWS OUTLET CONNECTION OF LTA-8. 4-22-67 529 Surveillance only
					GAEC QC 1357 NASA QA NASA 38M

SECTION 3.0

CHECKOUT DATA SHEET

PROJECT APCLLO

DATE 08/24/67

PAGE 3-1
OCP-B-63005 LTA-8

SUMMARY CHECKOUT DATA SHEET

1. PROCEDURE AUTHORIZED BY TPS NO. *TPS-2140 FOR SEQ 01,02,04 ONLY*
TPS 3237 FOR SEA 3,8, PARTIALLY SEQ 9
2. PROCEDURE START DATE AND TIME *10-31-67 1430 PM*
3. PROCEDURE TOTAL HOLD TIME

SEQ MALFUNCTION	TEST DISCP RECORD NO.	AUTHORITY FOR TROUBLESHOOTING
-----	-----	-----

SEE ATTACHED SHEETS -

4. PROCEDURE COMPLETION DATE AND TIME *3-2-68 1200 hrs.*

VERIFIED BY *A. La Cognata* *4-19-68*
 GAEC QUALITY CONTROL DATE

APPROVED BY *J. McShane* *4-19-68*
 GAEC TEST CONDUCTOR DATE

APPROVED BY *E. R. Dierman* *4-19-68*
 NASA SYSTEMS ENGINEER DATE

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SECTION 4.0

POST-CHECKOUT VERIFICATION AND ACCEPTANCE

PROJECT APOLLO

DATE 08/24/67

PAGE 4-1
OCP-B-63005 LTA-8

THE PROCEDURES DELINEATED IN DOCUMENT NO. OCP-B-63005 LTA-8 HAVE BEEN SATISFACTORILY COMPLETED AND THE RESULTS ARE ACCEPTABLE.

VERIFIED BY A. La Cognata
GAEC QC
4-19-68
DATE

VERIFIED BY G. Hoppe
NASA QA
4-19-68
DATE

APPROVED BY J. McShew
GAEC TEST CONDUCTOR
4-19-68
DATE

APPROVED BY E. D. [Signature]
NASA TEST DIRECTOR
4-19-68
DATE

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SECTION 5.0

EMERGENCY SHUTDOWN PROCEDURE

64

PAGE 5-1

OCP-B-63005 LTA-8

TIME	CH	SEQ	C/O CTL	C/O STTN	DESCRIPTION/INSTRUCTION
					EMERGENCY SHUTDOWN PROCEDURE IN THE EVENT OF AN EMERGENCY, PERFORM THE FOLLOWING.
					01. CLEAR TEST AREA UNLESS OTHERWISE INSTRUCTED BY TE.
					02. SECURE CABIN.
					03. AT LTA-8 CABIN CLEANLINESS ENCLOSURE, REMOVE PORTION OF PROTECTIVE FLOOR COVER P/N 420- 11262-3, EXTENDING THROUGH LTA-8 FORWARD HATCH.
					04. AT LTA-8 CABIN CLEANLINESS ENCLOSURE, CLOSE LTA-8 CREW COMPARTMENT HATCH.
					05. AT LTA-8 CABIN CLEANLINESS ENCLOSURE, ATTACH DUST COVER TO OUTBOARD END OF ADAPTER P/N 420-11000-7.
					06. AT 430-91011-1 (CONDITIONING CART), PRESS STOP SWITCH.
					07. AT 430-91011-1 (CONDITIONING CART), SET MASTER CIRCUIT BREAKER TO OFF.

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INTERIM DISCREPANCY REPORT (IDR) LOG

2CP 63005-

CP 52-130

OPERATIONAL CHECKOUT PROCEDURE
DEVIATION SHEET

CP NO. AND TITLE: <u>OCP-B-63005-LTA-8</u>	DATE: <u>10/31/67</u>	SHEET <u>1</u> OF <u>11</u>
	TPS NO.: <u>2140</u>	TD NO.: <u>1</u>

GAEC

D.W. Maynard (ECS)
J.D. Parsons
G. Headman

NASA

X U.E. Ward

PAGE	STEP	DEVIATION	TEMP/PERM	GAEC	NASA
2-1	01-004	Change LDW 420-11010-1 To Read LDW 420-13214-1 (original cable to large)	T		
2-1	01-005	Delete Seq-Step 01-005 (Done by OCP 42022)	T		
2-4	02-001	Delete Seq-Step 02-001 (Because 02-002 to be deleted)	T		
2-4	02-002	Delete Seq-Step 02-002, but not the two notes. (LSC 410-41002 not compatible with Space Craft)	T		
2-4	02-003 Sub- Step 05 + 06	Delete Sub Steps 05 and 06 of Seq-Step 02-003 (Done by OCP 42022)	T		
2-5	02-004	Delete Seq-Step 02-004 and replace with the following: Install Long lights in the cabin for lighting purposes; connect to	T		

OPERATIONAL CHECKOUT PROCEDURE DEVIATION SHEET

OCP NO. AND TITLE: OCP-B-63005 LTA-8	DATE: 10/31/67	SHEET 2 OF 11
	TPS NO.: 2140	TD NO.: 1

PAGE	STEP	DEVIATION	TEMP/ PERM	GAEC	NASA
2-5	02-004 Con't	120 Volt Supply at the work stand. (Not compatible with Spec. 100)	T	005	100

GH52-18B

OCP NO. AND TITLE:		DATE:	SHEET	OF	
OCP-B-63005 LTA-8		TPS NO.:	TD NO.:		
PAGE	STEP	DEVIATION	TEMP/PERM	GAEC	NASA
2-1	01-003	Sub-Steps 01. Delete	P	835 11/1/67	
2-3	01-008	Review as follows; Seq-Step 01-008 Delete: with LSC 420-14049-1 Vacuum cleaner	T	835 11/1/67	
2-3	01-008	Sub-Steps 01, 02, 03, 04, and 06, be Deleted.	P	835 11/1/67	
2-4	02-003	Delete Sub-Steps 01, 03, 04, 05, 06, 07, 08, 09, 02	P	835 11/1/67	

OLP-B-63005 LTA-8

DATE: 11/1/67

SHEET 3 OF 11

TPS NO.: 2140

TD NO.: 2

PAGE

STEP

DEVIATION

TEMP/
PERM

GAEC

NASA

2-1

01-003

Sub-Step 01. Delete

P

535

2-3

01-008

Review as follows; Seq-Steps 01-008
Delete: with LSC 420-14049-1
Vacuum Cleaner

T

585

11/0/22



2-3

01-008

Sub-Steps 01, 02, 03, 04, and 06, Be Deleted.

p

11/11/11

2-4

02-003

Delete Sub-Steps 01, 03, 04, 05, 06, 07,
08, 09, ~~02~~

1



11/11/11

**OPERATIONAL CHECKOUT PROCEDURE
DEVIATION SHEET**

OCP NO. AND TITLE: *OCP-B-63005-
LTA-8*

DATE: *11/11/67*

SHEET *4* OF *11*

TPS NO.:

TD NO.: *2*

*11-11-67
JM
JH*

PAGE	STEP	DEVIATION	TEMP/ PERM	SAEC	NASA
<i>2-16</i>	<i>09-035</i>	<i>Revise 09-035 as follows: Change: Column 2 to Read Column 4. (Engineering change)</i>	<i>P</i>	<i>741</i>	
<i>2-16</i>	<i>09-037</i>	<i>Revise 09-037 as follows: Change: Column 2 to Read Column 4. (Engineering change)</i>	<i>P</i>	<i>741</i>	
<i>2-17</i>	<i>09-038</i>	<i>Revise 09-038 as follows: Change: Column 2 to Read Column 4 (Engineering change)</i>	<i>P</i>	<i>741 2/4/68</i>	
<i>2-10</i>	<i>05-011</i>	<i>Revise 05-011 as follows: Change Column 6 To Column 7 (Printing Error)</i>	<i>P</i>	<i>741 379</i>	
<i>2-10</i>	<i>05-012</i>	<i>add the following new sig- step 05-012 as follows: TE ET Connect P9 and P10 of Cable LDU 410-11126. Located on platform 4, Near column 5, to J9 and J10 of LTA-8. (Engineering addition to) OCP</i>	<i>P</i>	<i>741</i>	

OPERATIONAL CHECKOUT PROCEDURE
DEVIATION SHEET

OCP NO. AND TITLE: *OCP-B-63005*

DATE: *11/18/67*

SHEET *5* OF *11*

TPS NO.:

TD NO.: *2*

PAGE	STEP	DEVIATION	TEMP/ PERM	GAEC	NASA
<i>RAC 2-10</i> <i>11/17</i>	05-013	<i>add the following new Seq-Step 05-013 as follows: TE FT, Connect P166 of cable LDW 410-11107-1 Located on platform 3, near column 1, To J166 of LTA-8 (Needed for Ambient use only)</i>	<i>T</i>	<i>318</i>	
<i>RAC 2-10</i> <i>11/17</i>	05-014	<i>add the following new Seq-Step 05-014 as follows: FE FT, Connect P27⁵¹¹ and P27A of Cable LDW 410-11586 Located on platform 4, near column 6, To J27 and J27A of LTA-8 (Needed for Ambient use only)</i>	<i>T</i>	<i>319</i>	
<i>RAC 2-10</i> <i>11/17</i>	05-015	<i>add the following new Seq Step 05-015 as follows: TE FT, Connect P31, P32, P31A, and P32A of LDW 410-11585 Located on platform 2, near column 1, To J31, J32, J31A, and J32A of LTA-8. (Need for Ambient use only)</i>	<i>T</i>	<i>319</i>	

**OPERATIONAL CHECKOUT PROCEDURE
DEVIATION SHEET**

OCP NO. AND TITLE: *OCP B-63005*

DATE: *11/18/67*

SHEET *6* OF *11*

TPS NO.:

TD NO.: *2*

*RAB 2-9
MS*

05-006

Revise as follows:

*Connect cable LDW 410-10857-1
located on platform 1, near column 1,
to ECA-1 and -2 of LTA-8 as
follows:*

cable

ECA

<i>E1</i>	<i>to</i>	<i>ECA 1A L</i>	<i>terminal 1</i>
<i>E2</i>	<i>to</i>	<i>ECA 1A H</i>	<i>" 2</i>
<i>E3</i>	<i>to</i>	<i>ECA 1A -</i>	<i>" 3</i>
<i>E4</i>	<i>to</i>	<i>ECA 1B L</i>	<i>" 4</i>
<i>E5</i>	<i>to</i>	<i>ECA 1B H</i>	<i>" 5</i>
<i>E6</i>	<i>to</i>	<i>ECA 1B -</i>	<i>" 6</i>
<i>E7</i>	<i>to</i>	<i>ECA 2A L</i>	<i>" 1</i>
<i>E8</i>	<i>to</i>	<i>ECA 2A H</i>	<i>" 2</i>
<i>E9</i>	<i>to</i>	<i>ECA 2A -</i>	<i>" 3</i>
<i>E10</i>	<i>to</i>	<i>ECA 2B L</i>	<i>" 4</i>
<i>E11</i>	<i>to</i>	<i>ECA 2B H</i>	<i>" 5</i>
<i>E12</i>	<i>to</i>	<i>ECA 2B -</i>	<i>" 6</i>

P

*741
1345*

**OPERATIONAL CHECKOUT PROCEDURE
DEVIATION SHEET**

OCP NO. AND TITLE:

OCP-B-63005-LTA-8

DATE: *11/18/67*

SHEET *7* OF *11*

TPS NO.:

TD NO.:

PAGE	STEP	DEVIATION	TEMP/ PERM	GAEC	NASA
<i>RAB</i> <i>WJF</i> 2-10	05-009	<i>Revise 05-009 as follows: change ECA-3 and -4 to read P5 and change ECA-3 AND -4 to read J5 GSE WINDOW</i>	<i>P</i>	<i>379</i>	
<i>RAB</i> <i>WJF</i> 2-10	<i>Before</i> 05-007	<i>Prior to Seq-Step 05-007 add the following Note In the following two Seq-Steps (05-007 AND 05-008), where a lug to lug (Vehicle to GSE) Connection must be made utilize 1/4" x 5/8" AN Hardware and insulate with G.5830 H-830N Shrink Sleeve.</i>	<i>T</i>	<i>379</i>	
<i>SM</i> 2-10	05-011	<i>AFTER STEP 05-011, ADD NEW STEP AS FOLLOWS 05-011A - Route CABLE THROUGH DOCKING TUNNEL AND PERFORM STEP 05-012 (TEMP SUPPORT OF 63003)</i>	<i>T</i>	<i>379</i>	
<i>WJF</i> 2-10	05-007	<i>REVISE LDW 410-10946-1 TO READ LDW 410- 10946-3. WJF (INCORRECT NUMBER)</i>	<i>P</i>	<i>379</i>	
<i>WJF</i> 2-9	05-001	<i>REVISE CB 10 IN SUB-STEP 04 TO READ ON (ENG CHANGE)</i>	<i>T</i>	<i>379</i>	
<i>WJF</i> <i>WJF</i> 2-9	05-001	<i>REVISE SUB-STEP 04, CB 11 TO READ ON (ENG CHANGE)</i>	<i>T</i>	<i>379</i>	

**OPERATIONAL CHECKOUT PROCEDURE
DEVIATION SHEET**

SCP NO. AND TITLE:

OCP-B-63005-LTA-8

DATE:

11-19-62

SHEET

8

OF

11

TPS NO.:

TD NO.:

PAGE	STEP	DEVIATION	TEMP/ PERM	GAEC	NASA
2-4 Cof DSS	05-001	DELETE SUB-STEP 03. ENTIRELY (ALLOW CORDING TO REMAIN ON FOR OCP-B-63003-LTA-8)	T	379	

OPERATIONAL CHECKOUT PROCEDURE
DEVIATION SHEET

OCP NO. AND TITLE:
63005

DATE: 1/19/68

SHEET 39 OF 11

TPS NO:

PRETEST

TEST

POST-TEST

DEV. NO.	PAGE	SEQ.	DEVIATION/REASON	TEMP/PERM.	GAEC	NASA
047 246	2-8	04-001	Sub - Steps 01, 02, Delete (Performed by TPS)	T	835	

**OPERATIONAL CHECKOUT PROCEDURE
DEVIATION SHEET**

OCF NO. AND TITLE:

OCF-B-63005-LTA-8

DATE: 1-26-68

SHEET 10 OF 11

TPS NO.:

TD NO.:

PAGE	STEP	DEVIATION	TEMP/ PERM	SAEC	NASA
db 2-19	10-018	Change "Column 7" To read "Column 6".	P	529	
db 2-21	11-019	Change "Column 13" To read "Column 2".	P	529	
db 2-22	11-046	Change "Platform 2" To read "Platform 3".	P	529	
db 2-24	12-008	Change "Platform 1" To read "Platform 2".	P	529	
db 2-24	12-009	Change "Platform 1" To read "Platform 2".	P	529	
db 2-24	12-010	Change "Platform 1" To read "Platform 2".	P	529	
db 2-18	10-009	Delete entire SEQ. 10-009.	PT		
db 2-18	10-010	Delete entire SEQ. 10-010.	PT		
db 2-22	11-047	Delete entire SEQ. 11-047.	P	529	
db 2-22	11-047	Delete entire SEQ. 11-047.	P	529	
db 2-23	11-049	Delete entire SEQ 11-049.	P	529	
db 2-31	13-010	DELETE ENTIRE SEQ 11-049.	P	209 4/15/8	

OPERATIONAL CHECKOUT PROCEDURE
DEVIATION SHEET

OCP NO. AND TITLE:

OCP-B-63005-LTA-8

DATE: 2-7-69

SHEET 11 OF 11

TPS NO:

PRETEST

TEST

POST-TEST

DEV. NO.	PAGE	SEQ.	DEVIATION/REASON	TEMP/PERM.	GAEC	NASA
JM 88	2-15	09-08	DELETE 'AND PSL' AND DELETE 'AND JSL' (NOT APPLICABLE TO LTA-8)	P	653	
JM 88	2-15	09-020	DELETE STEP (NOT APPLICABLE TO LTA-8)	P	653	
CT 88	2-26	12-017-03	DELETE ENTIRE SUBSTEP (NOT REQ'D PER LCD 20252)	P	653	
CT 88	2-29	12-024-01	DELETE ENTIRE SUBSTEP (NOT REQ'D PER LCD 20252)	P	653	
CT 88	2-29	12-025-04	'LDW 450-5204-33' S/B 'LDW 450-5204-23' (PRINTING ERROR)	P	653	
PAGE 2-11						
JM 88	2-11	06003	LINE 1 CHANGE P-364A TO P3 JM 88 LINE 2 CHANGE I-364A TO I1	P	209	
JM 88	2-11	06-004	LINE 1 CHANGE P-364C TO P1 JM 88 LINE 2 CHANGE I-364C TO I1 JM	P	209	
JM 88	2-11	06-005	LINE 1 CHANGE P-1018 TO J-1018 LINE 2 CHANGE I-1018 TO P1114B ENG. CHANGE. TPS FC 4165	P	209	
JM 88	2-11	06-006	LINE 2 CHANGE I-1149 TO I1101 ENG. CHANGE. TPS 4173	P	209	

I T Y P E	A	Configuration Change	1319 38M 10-31-67	2. TPS No.	ECS 2140	
	B	Non-Configuration Change		X	3. SIC	Cat.
4. Mod. Sheet Number			TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER			
6. S/C No./Model No.			7. Date		8. Time	
LTA 8			10/30/67		1300	
10. Drawings, Documents, Ocp's, & Part Number(s)			9. Need Date			
OCP-B-63005 Seq 1 & 2			OCP 63005			
13. System			11. Contract Number			
<i>Ann</i> Vehicle Support			NAB 9-1100			
15. TPS Short Title			12. Serial Number			
ECS Systems Installation to Chamber			14. Ref. E. O. Number			
17. Reason for Work:			16. Wt. Req.			
Vehicle Test Support connections for ECS.						
18. DESCRIPTION (Print or Type)					21. Tech.	Insp.
					22. CONT.	23. NASA
1. Accomplish OCP-B-63005 seq. 1 & 2						
Seq 2 & Seq 4						
SEQ 1 COMPLETED 67						
SEQ 2 " 11						
SEQ 4 Step 003, 004						
1319 38M						
19. Prepared By					20. Final Acceptance Date	
<i>Art Maynard</i> Y3471					11-8-67 1319 38M	
REFER TO PROCEDURES FOR REQUIRED SIGNATURES					REFER TO PROCEDURES FOR REQUIRED SIGNATURES	
Contractor	Date	NASA	Date			
<i>Art Maynard</i>	10/30/67	<i>U. E. Ward</i>	10/31/67			
<i>Spadman</i>	10-30-67	<i>R. E. Sanders</i>	10/31/67			
<i>E. Jensen</i>	10-31-67					

TYPE A B	Configuration Change		11-8-67 TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		2. TPS No.	EPS 3237	
	Non-Configuration Change	X			3. S/C	Cat.	No.
Mod. Sheet Number			LTA-8				
			5. Page 1 of 2				
6. S/C No./Model No.			7. Date	8. Time	9. Need Date		
			11-7-67	18:20	36020		
10. Drawings, Documents, Ocp's, & Part Number(s)			11. Contract Number		Priority OCP		
OCP-B-63005 LTA-8			NAS 9-1100				
13. System			12. Serial Number		14. Ref. E. O. Number		
EPS			N/A		N/A		
15. TPS Short Title			16. Wt. Req.				
PERFORM SEQ. 3,8,9 OF OCP-B-63005 LTA-8			N/A				
17. Reason for Work: TO PERFORM SEQ. STEPS 3,8,9 CABLE							
HOOK-UP TO SPACECRAFT PROCEDURE PORTION.							
18. DESCRIPTION (Print or Type)					21. Insp. Tech.	22. CONT.	23. NASA
PERFORM SEQ. 3,8,9 OF OCP-B-63005							
WITH THE FOLLOWING EXCEPTIONS:							
1. SEQ. 08-002 P36 OF CABLE LDW 450-5225-1 CANNOT BE MATED. Ref MOD#3							
2. SEQ. 09-004 P8 OF CABLE LDW 450-5143-5 CANNOT BE MATED. connected Ref. MOD#2							
3. SEQ. 09-006 P13 OF CABLE LDW 450-5143-9 CANNOT BE MATED. connected ref. MOD#4							
4. SEQ. 09-007 P16, P18 OF CABLE LDW 450-5143-11 CANNOT BE MATED. P-16 Ref MOD#3 & P18 MOD#4 connected							
5. SEQ. 09-008 P19, 20, 21 OF CABLE LDW 450-5143-13 CANNOT BE MATED. P20 MOD#4 & P19 MOD#3 & P21 MOD#4 Ref MOD#1							
6. SEQ. 09-009 P23, 24 OF CABLE LDW 450-5143-15 CANNOT BE MATED.							
7. SEQ. 09-010 P27 OF CABLE LDW 450-5143-17 CANNOT BE MATED. Ref MOD#1							
19. Prepared By				20. Final Acceptance Date			
LEE BROOME				2-27-68			
REFER TO PROCEDURES FOR REQUIRED SIGNATURES				REFER TO PROCEDURES FOR REQUIRED SIGNATURES			
Contractor		Date		NASA		Date	
B. Johnston		11-7-67		M. L. Fink		11/7/67	
H. Chapman		11-7-67		R. E. Sander		11/7/67	
A. Serrano		11-8-67					

TEST PREPARATION SHEET

CONTINUATION SHEET

NASA - MAN IED SPACECRAFT CENTER

TPS No.

FPS 3237

S/C

LTA-B

Cat.

No.

Page

2

of

2

	DESCRIPTION (Print or Type)	Tech.	Insp.	
			Conf.	NASA
8.	SEQ. 09-011 P28, 29, 30 OF CABLE LDW 450-5143-19 CANNOT BE MATED. P-28 MOD#3 & P-29 MOD#4 & P-30 MOD#2		12/16/67 685	
9.	SEQ. 09-012 P31 OF CABLE LDW 450-5143-21 CANNOT BE MATED.		12/16/67 685	
10.	SEQ. 09-013 P36 OF CABLE LDW 450-5143-23 CANNOT BE MATED.		12/16/67 685	
11.	SEQ. 09-014 P38, 39 OF CABLE LDW 450-5143-25 CANNOT BE MATED.		12/16/67 685	
12.	SEQ. 09-015 P40, 41, 42 OF CABLE LDW 450-5143-27 CANNOT BE MATED. P-40 MOD#3 & P-41 MOD#2 & P-42 MOD#1		12/16/67 685	
13.	SEQ. 09-016 P45 OF CABLE LDW 450-5143-29 CANNOT BE MATED.		12/16/67 685	
14.	SEQ. 09-018 P51 OF CABLE LDW 450-5143-33 CANNOT BE MATED.		12/16/67 685	
15.	SEQ. 09-019 P52, 53, 54 OF CABLE LDW 450-5143-35 CANNOT BE MATED.		12/16/67 685	
16.	SEQ. 09-020 NO MATING VEHICLE CONNECTORS.		12/16/67 685	
17.	SEQ. 09-023 P22, 23, 24 OF CABLE LDW 450-5143-5 CANNOT BE MATED.		12/16/67 685	
18.	SEQ. 09-028 P801 OF CABLE LDW 450-5194-1 CANNOT BE MATED.		12/16/67 685	
19.	SEQ. 09-030 P803 OF CABLE LDW 450-5194-5 CANNOT BE MATED.		12/16/67 685	
20.	SEQ. 09-035 P66 OF CABLE LDW 450-5239-1 CANNOT BE MATED.		12/16/67 685	
21.	SEQ. 09-036 P69 OF CABLE LDW 450-5239-3 CANNOT BE MATED.		12/16/67 685	
22.	SEQ. 09-37 P71, 72 OF CABLE LDW 450-5239-5 CANNOT BE MATED.		12/16/67 685	
23.	SEQ. 09-38 P73, 74, 75 OF CABLE LDW 450-5239-7 CANNOT BE MATED.		12/16/67 685	

1 TYPE	A	Configuration Change	X	 TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		2. TPS No.	EPS 3237NN	
	B	Non-Configuration Change				3. S/C	Cat.	No.
4. Mod. Sheet Number				MOD 1		5. Page 1 of 1		
6. S/C No. / Model No.				LTA 8		7. Date 11-14-67		
8. Time						9. Need Date PRIOR TO 36020		
10. Drawings, Documents, Ocp's. & Part Number(s)				SEQ 9. 63005		11. Contract Number NAS 9-1100		
12. Serial Number				N/A		13. System EPS		
14. Ref. E. O. Number				N/A		15. TPS Short Title CONNECT PARTIAL SEQ 9 63005		
16. W. Req.				N/A		17. Reason for Work: PARTIAL RELEASE OF SEQ 9 FROM INST. JM		
18. DESCRIPTION (Print or Type)								
1 CONNECT THE FOLLOWING CONNECTORS						21	Insp	
23, 1-1, 2-1, 3-1, 4-1 AND 4-2 REF.						Tech	22 CORR	23 NASA
CIGIPS STEPS 6, 7, 8, 9, 10, 11, 12, AND 13							11/15/67	
2 AFTER CONNECTING CONNECTORS							741	
STAMP SEQ. 9 IN 63005 WITH APPLICABLE							2/4/68	
STAMPS								
CONNECTOR 23 NOT CONNECTED								
ALL OTHERS CONNECTED 11/15/67								
FOR INS #15 closed by removing								
Temporary installed plug								
Connector 23 is connected 11/15/67								
19. Prepared By J. MICKEL X 5967						20. Final Acceptance Date 2-4-68		
REFER TO PROCEDURES FOR REQUIRED SIGNATURES						REFER TO PROCEDURES FOR REQUIRED SIGNATURES		
Contractor		Date		NASA		Date		
R-A Burns		11/14/67		[Signature]		11/14/67		
[Signature]		11/14/67		[Signature]		11/14/67		
[Signature]		11/14/67		[Signature]		11/14/67		
G. Lerrano		11/14/67		[Signature]		11/14/67		

1. TYPE	A	Configuration Change	X	TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		2. TPS No.	EPS 3237M2	
	B	Non Configuration Change				3. S.C.	Cat.	No.
4. Mod. Sheet Number						5. Page 1 of 1		
6. S.C. No./Model No.				7. Date		9. Need Date		
LTA 8				11-29-67		PRIOR TO 36020		
10. Drawings, Documents, Qcps, & Part Number(s)				8. Time		11. Contract Number		
SEQ 9 63005						NAS 9-1100		
13. System						12. Serial Number		
EPS						N/A		
15. TPS Short Title						14. Ref. E. O. Number		
CONNECT PARTIAL SEQ 9 63005						N/A		
17. Reason for Work						16. Wt. Req.		
PARTIAL RELEASE OF SEQ 9 FROM INST.						N/A		

***—GAEK: MANDATORY INSPECTION POINTS**

18. DESCRIPTION (Print or Type)	Insp.		
	21. Tech.	22. CONT	23. NASA
1. CONNECT THE FOLLOWING CONNECTORS SEQ 4 P8 TO J8, SEQ 11 P30 TO J30, SEQ 19 P52 TO J52, SEQ 23 P22 TO J22, SEQ 23 P23 TO J23, SEQ 23 P24 TO J24, SEQ 38 P13 TO J13.	ED	1357	
2. AFTER CONNECTING CONNECTORS STAMP SEQ 9 IN 63005 WITH APPLICABLE STAMPS.			

19. Prepared By		20. Final Acceptance Date	
D. Bickhart X 5967		5 DEC 67	
REFER TO PROCEDURES FOR REQUIRED SIGNATURES			
Contractor	Date	NASA	Date
R. Patterson	11-30-67	J. J. J. J.	11/30/67
G. Bresslin	11-30-67	J. J. J. J.	11-30-67
G. Ferrano	11-30-67		

I T Y P E	A	Configuration Change	685 12-7-67 TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		2. TPS No.	EP 3237 M.3			
	B	Non-Configuration Change			3. S/C	Cat.	No.	LTA 8	
Mod. Sheet Number					5. Page			1 of 1	
6. S/C No./Model No.			7. Date		8. Time		9. Need Date		
LTA 8			12-1-67				PRIOR TO 36020		
10. Drawings, Documents, Ocp's, & Part Number(s)					11. Contract Number				
SEQ 9 63005					NAS 9-1100				
					12. Serial Number				
					N/A				
13. System					14. Ref. E. O. Number				
EPS					N/A				
15. TPS Short Title							16. Wt. Req.		
CONNECT PARTIAL SEQ 9 63005							N/A		
17. Reason for Work:									
PARTIAL RELEASE OF SEQ 9 FROM INST.									
* — GAEC MANDATORY INSPECTION POINTS									
18. DESCRIPTION (Print or Type)					21. Tech.	Insp.			
						22. CONT	23. NASA		
1. CONNECT THE FOLLOWING CONNECTORS: —									
74008 — SEQ 7 CONNECT P16 TO J16, SEQ 8 CONNECT P19					E13			5 Dec 67	
4013 — TO J19, SEQ 11 CONNECT P28 TO J28, SEQ 13 CONNECT					E13				
405 — P36 TO J36, SEQ 14 CONNECT P39 TO J39, SEQ 15					E13			1357	
419 — CONNECT P40 TO J40 & P42 TO J42, SEQ 19					E13			1357	
5 — CONNECT P53 TO J53, SEQ 35 CONNECT P66 TO					E13			1357	
8 — J66, SEQ 38 CONNECT P74 TO J74 & P75					E13			1357	
TO J75.								1357	
2. AFTER CONNECTING CONNECTORS					E13			5 Dec 67	
STAMP SEQ 9 IN 63005 WITH									
APPLICABLE STAMPS.									
NASA QA NOTE! SEQ. REF. IN STEP 1 ABOVE ARE UNDERSTOOD TO MEAN 09-007, 09-008 ETC. AS SHOWN. 12-1-67									
19. Prepared By					20. Final Acceptance Date				
D. Bickhart					5 Dec 67				
REFER TO PROCEDURES FOR REQUIRED SIGNATURES					REFER TO PROCEDURES FOR REQUIRED SIGNATURES				
Contractor		Date		NASA		Date			
James J. Dando		12-1-67		[Signature]		12-1-67			
[Signature]		12-1-67		[Signature]		12-1-67			
G. Lemaire		12-1-67		[Signature]		12-1-67			

12-10-67

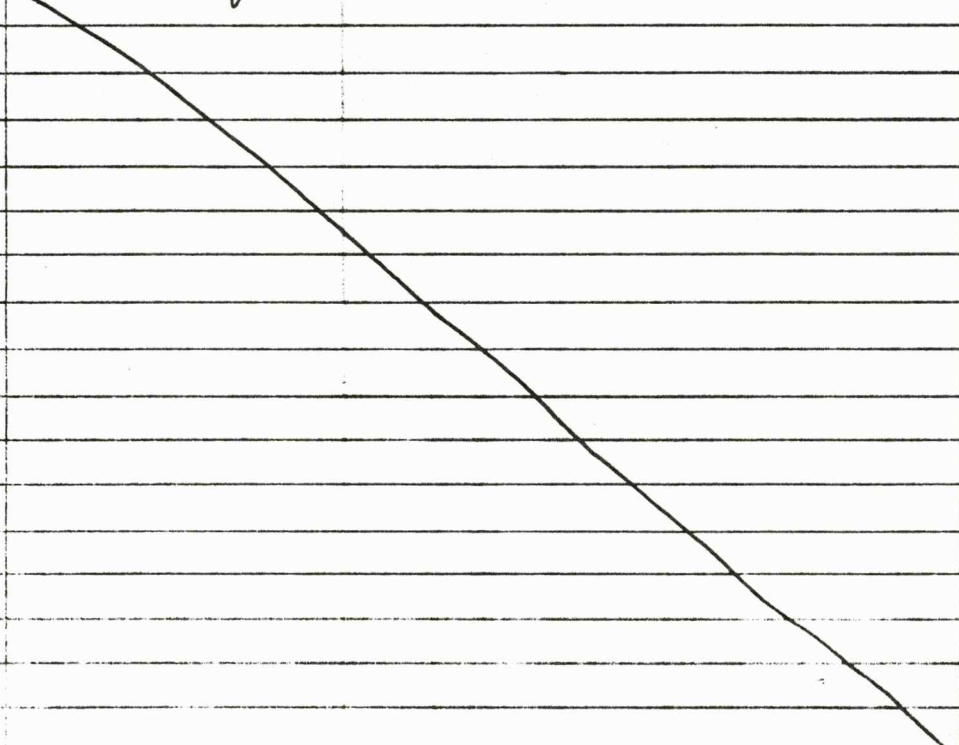
I. TYPE	A	Configuration Change	X	 TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER	2. TPS No.	EPS 3237 M4	
	B	Non-Configuration Change			3. S/C	Cat	No
4. Mod. Sheet Number					3. S/C	LTA-8	1/A
MOD IV					5. Page	1	of
6. S/C No./Model No.		7. Date		8. Time	9. Need Date		
LTA 8		12-9-67			PRIOR TO 36020		
10. Drawings, Documents, Ocp's. & Part Number(s)					11. Contract Number		
OCP-63005					NAS 9-1100		
13. System					12. Serial Number		
EPS					N/A		
15. TPS Short Title					16. Wt. Req.		
CONNECT SEQ (PARTIAL) 9 63005					N/A		
17. Reason for Work:							

CCP C3005
PARTIAL RELEASE OF SEQ

MANDATORY INSPECTION POINTS		21. Insp
DESCRIPTION (Print or Type)	Tech.	22. CORR
1. Connect the following Connectors: SEQ 9 S/C B STEPS 7A		2/4/68
STEP 6 Connect P13 ^{E43} TO J13, STEP 7 CONNECT		
P18 ^{E13} TO J18, STEP 8 CONNECT P20 ^{E13} TO J20		
P21 ^{E43} TO J21, STEP 11 CONNECT P29 ^{E43} TO J29		
STEP 19 Connect P54 ^{E43} TO J54, STEP 28		
CONNECT P801 ^{E13} TO J801, STEP 30 CONNECT		
P803 ^{E13} TO J803, SEQ 36 CONNECT P67 ^{E13} TO J67		
STEP 37 CONNECT P37 TO J37, P72 TO J72		
71 Ref Mod 5 71 12-10-67 74 REF MOD 5 12-10-67 ENG NOTE STAMP SEQ 9 WITH APPLICABLE STAMPS SELL ALL RELATED PORTION OF OPEN TPS'S. QC Note P13, P18, P21, P29, P54, P69 MATED 12/15/67 mated P801, P803 12/15/67 E.C.W.		

19. Prepared By		20. Final Acceptance Date	
E. Salvadore		2-4-68	
REFER TO PROCEDURES FOR REQUIRED SIGNATURES		REFER TO PROCEDURES FOR REQUIRED SIGNATURES	
Contractor	Date	NASA	Date
R. A. Bruno	12-9-67	J. J. Dupont	12/9/67
G. Hume	12-9-67		
G. Ferraro	12-9-67	J. S. Hickey	12/9/67

TYPE A Configuration Change	TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		2. TPS No. EPS-3237M5	
B Non-Configuration Change			LTA-E 4/2 1/1A	
Mod. Sheet Number 11-1	7. Date 12-18-67	8. Time	5. Page 1 of 1	9. Need Date SEP 09
S/C No. Model No. LTA-8			10. Drawings, Documents, Cops. & Part Number(s) OCP-63005	11. Contract Number NAS 9-1100
13. System EPS			12. Serial Number N/A	14. Ref. E. O. Number N/A
15. TPS Short Title CONNECT SEQ (09-037) PERFORM PARTIAL RELEASE FROM OCP 63005			16. Wt. Req. N/A	
17. Reason for Work PERFORM PARTIAL RELEASE FROM INST. OF CONNECTORS TO BE CONNECTED IN OCP 63005				
18. DESCRIPTION (Print or Type)				
1. IN TPS 3237M4 LINE ITEM 1 ON THE LAST CONNECTOR TO ^{BE} CONNECTED STEP #37 IS CONNECT P37 TO J-37 S/B CONNECT P-71 TO J-71, P-72 TO J-72.				
21. Insp. 741 12/18/67				
19. Prepared By J. E. McGREW X5967				
20. Final Acceptance Date 2-4-68 741				
REFER TO PROCEDURES FOR REQUIRED SIGNATURES				
Contractor	Date	NASA	Date	
R. A. Burns	12-18-67	J. E. Lander	12/18/67	
John E. Lander T.C.	12-18-67		12/18/67	
E. Lander	12-18-67			

TYPE A	Configuration Change	X	 TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		2. TPS No.	EPS 3254			
	B				Non-Configuration Change	3. S/C	Cat.	No.	LTA-8
Mod. Sheet Number			5/C No./Model No.	7. Date	8. Time	5. Page	1	of	1
			LTA-8	11/18/67	1600	9. Need Date	OCP B-63003		
10. Drawings, Documents, Ocp's, & Part Number(s)					11. Contract Number				
OCP B-63005					NAS 9-1100				
13. System					12. Serial Number				
Electrical					N/A				
15. TPS Short Title					16. Wt. Req.				
Perform Sequence 5 of OCP B-63005					N/A				
17. Reason for Work:					14. Ref. E. O. Number				
To connect EPS GSE cables to vehicle									
18. DESCRIPTION (Print or Type)					21.	Insp.			
					Tech.	22. CONT.	23. NASA		
1- Perform Sequence 5 of OCP B-63005						319			
									
19. Prepared By					20. Final Acceptance Date				
R. A. Bruno									
REFER TO PROCEDURES FOR REQUIRED SIGNATURES					REFER TO PROCEDURES FOR REQUIRED SIGNATURES				
Contractor		Date		NASA		Date			
R. A. Bruno		11/18/67		Robert B. Smith		11/18/67			
G. Terrano		11/18/67		M. E. Smith		11-18-67			

1. TYPE	A	Configuration Change	12/18/67 TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		2. TPS No.	FC 4133		
	B	Non-Configuration Change			LTA-8	410	No. N/A	
4. Mod. Sheet Number			N/A		5. Page 1 of 3			
6. S/C No./Model No.		LTA-8		7. Date	12/17/67		8. Time	10 AM
10. Drawings, Documents, Ocp's, & Part Number(s)					9. Need Date			
LED 410-148; LDW 380-28050; LDW 280-23257					PRE OCP-B-38039			
11. Contract Number					NAS 9-1100			
					12. Serial Number			N/A
13. System					14. Ref. E. O. Number			
COMMUNICATIONS.					N/A			
15. TPS Short Title							16. Wt Req.	
CHAMBER "B" RF HARDLINE CONNECTIONS.							N/A	
17. Reason for Work: ACCOMPLISH RF INTERFACES BETWEEN LTA-8 AND THE CTS (LDW 410-32280-5)								
GAEC MANDATORY INSPECTION POINTS								
18. DESCRIPTION (Print or Type)				21. Tech.	Insp.			
				22. CONT.	23. NASA			
NOTE:								
1.) LEVEL "C" CLEANLINESS CONDITIONS SHALL BE MAINTAINED AT ALL TIMES DURING ALL PHASES OF THIS TPS.								
2.) THIS TPS IS A TEMPORARY CHANGE FOR LTA-8, ONLY OCP-B-38039.								
1. DEMATE P1101B OF CABLE LDW 390-21543 FROM J1101 INTERSTAGE CONNECTION.				WR E30	1318			
2. MATE P1149 OF CABLE LDW 410-10859 TO J1101 INTERSTAGE CONNECTOR				WR E30	1314			
3. DISCONNECT IFA #2 (LDW 380-21002-1) FROM LTA-8 PER DRAWINGS LDW 380-28050 AND LDW 280-23257.				WR E30	1318			
19. Prepared By				20. Final Acceptance Date				
S. Barcomb				3-4-F				
REFER TO PROCEDURES FOR REQUIRED SIGNATURES				REFER TO PROCEDURES FOR REQUIRED SIGNATURES				
Contractor		Date		NASA		Date		
Guthrie		12/18/67		R. E. Bond		12/18/67		
Cody M. Anderson		12/18/67						

No all my.
 M3. M3-5-68 also MDD's change TPS interface, M.

SURVEILLANCE ONLY

1. TYPE	A	Configuration Change	TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		2. TPS No.	FC 4133M 4	
	B	Non-Configuration Change			3. S/C	Cat	No.
4. Mod. Sheet Number			MOD 4		LTA-8	410	N/A
6. S/C No./Model No.			LTA-8		7. Date	1 MARCH 68	
8. Time			1443		9. Need Date	OCP 20000	
10. Drawings, Documents, Ocp's, & Part Number(s)			LDW 410-10859, EO A3		11. Contract Number	NAS-9-1100	
12. Serial Number					13. System	COMMUNICATIONS	
14. Ref. E. O. Number					15. TPS Short Title	CHAMBER B' RF HARDLINE CONNECTIONS	
16. Wt. Req.					17. Reason for Work:	N/A PML	
18. DESCRIPTION (Form or Type)			GAEC MANDATORY INSPECTION POINTS		21. Tech.	22. CONT.	23. NASA
1			ON PAGE 3 OF THE BASIC TPS DELETE STEP 9		3-4-8	3-4-8	3-4-8
NOTE:			THIS STEP WAS ACCOMPLISHED IN TPS FC 4165.				
19. Prepared By			L. Barcomb		20. Final Acceptance Date		
REFER TO PROCEDURES FOR REQUIRED SIGNATURES			3-4-8		REFER TO PROCEDURES FOR REQUIRED SIGNATURES		
Contractor	Date	NASA	Date				
<i>[Signature]</i>	3/3/68	<i>[Signature]</i>	3/4/68				
<i>[Signature]</i>	3/4/68	<i>[Signature]</i>	3/4/68				
<i>[Signature]</i>	3/4/67	<i>[Signature]</i>	3/4/68				

TEST PREPARATION SHEET
CONTINUATION SHEET
NASA - MANNED SPACECRAFT CENTER

TPS No. **FC 4133**
S/C **LTA-8** Cat. **410** No. **N/A**
Page **2** of **3**

	DESCRIPTION (Print or Type)	Tech. E30	Insp.	
			Cont.	NASA
4	DEMATE P1114B OF CABLE LDW 390-21556 FROM J 1114 OF IFA#2	WJR E30	(1318)	
5	INCORPORATING RIGHT ANGLE ADAPTER LDW 380-00602-13 MATE P1018 OF CABLE LDW 410-10858 TO * P1114B OF CABLE LDW 390-21556 NOTE: PLACE RIGHT X ADAPTER THRU LOWER HOLE IN LDW 280-23257 TO MATE CABLES.	WJR E30	(1318)	SURVEILLANCE ONLY
6	INSTALL IFA#2 (OF STEP 4) PER DRAWINGS LDW 380-28050 AND * LDW 280-23257	WJR E30	(1318)	
7	MATE P1 OF CABLE LDW 410-10864 TO J1 OF AFT C-BAND ADAPTER ASSEMBLY * LDW 410-10727 ON LTA-8	WJR E30	(1318)	SURVEILLANCE ONLY
8	MATE P1 OF CABLE LDW 410-10865 TO J1 * OF RIGHT HAND OUTBOARD C-BAND ADAPTER ASSEMBLY LDW 410-10727 ON LTA-8.	WJR E30	(1318)	

E. J. B.

TEST PREPARATION SHEET
CONTINUATION SHEET
NASA - MANNED SPACECRAFT CENTER

TPS No. **FC4133**
S/C **LTA-8** Coy **410** No. **V/A**
Page **3** of **3**

	DESCRIPTION (Print or Type)	Tech.	Insp.	
			Cont.	NASA
	<u>NOTE:</u> THE FOLLOWING STEPS ARE NOT TO BE PERFORMED UNTILL AFTER COMPLETION OF OCP B-38039 - LTA-8.			
9	DEMATE P1149 OF CABLE LDW 410-10859 * FROM J1101 OF INTERSTAGE CONNECTOR.			<i>Deleted per mod</i>
10	MATE P1101B OF CABLE LDW 390-21543 TO * J1101 INTERSTAGE CONNECTOR.			<i>DELETE PER MI STEP</i>
11	REPEAT STEP 3, ON PAGE 1.			
12	DEMATE P1018 OF CABLE LDW 410-10858 FROM P1114B OF CABLE LDW 390-21556 AND * REMOVE ADAPTER LDW 380-00602-13.			<i>Deleted by mod</i>
13	MATE P1114B OF CABLE LDW 390-21556 * TO J1114 OF IFA #2.			
14	REPEAT STEP 6, ON PAGE 2.			
15	DEMATE P1 OF CABLE LDW 410-10864 FROM J1 OF AFT C-BAND ADAPTER ASSEMBLY * LDW 410-10727			<i>Deleted by mod</i>
16	DEMATE P1 OF CABLE LDW 410-10865 FROM J1 OF RIGHT HAND OUTBOARD C-BAND ADAPTER * ASSEMBLY LDW 410-10727			<i>Deleted by mod</i>

1. T Y P E	A	Configuration Change	 1/30/68	2. TPS No. FC 4133 M1	
	B	Non-Configuration Change		☒	3. S/C LTA-8
4. Mod. Sheet Number			N/BD 1	5. Page 1 of 1	
6. S/C No./Model No.			LTA-8	7. Date	17 JAN 68
				8. Time	1850
10. Drawings, Documents, Ocp's, & Part Number(s)				11. Contract Number	
LDW 410-10859 EEO A3				NAS 9-1100	
				12. Serial Number	
				N/A	
13. System				14. Ref. E. O. Number	
COMMUNICATIONS				N/A	
15. TPS Short Title					16. Wt. Req.
DELETE STEP 10					N/A
17. Reason for Work: EEO A3 OF LDW 410-10859					

19. Prepared By <u>L. Barcomb</u>		20. Final Acceptance Date <u>2-29-68</u>	
REFER TO PROCEDURES FOR REQUIRED SIGNATURES		REFER TO PROCEDURES FOR REQUIRED SIGNATURES	
Contractor	Date	NASA	Date
<u>[Signature]</u>		<u>[Signature]</u>	<u>1/20/68</u>
<u>C. M. [Signature]</u>	<u>1-18-68</u>	<u>W. T. [Signature]</u>	<u>1/20/68</u>
<u>[Signature]</u>	<u>1-20-68</u>		
<u>[Signature]</u>	<u>1-20-68</u>		

NO PML REQD.

re req.

1. TYPE	A	Configuration Change	231	2. TPS No.	FC 4133M2	
	B	Non-Configuration Change			3. S/C	Cat
				LTA-B	410	N/A
4. Mod. Sheet Number				5. Page 1 of 1		
MOD 2						
6. S/C No./Model No.		7. Date		8. Time		9. Need Date
LTA-B		26 FEB. 68		1535		3-5-68 OCP 90000
10. Drawings, Documents, Ocp's, & Part Number(s)				11. Contract Number		
LED 410-148				NAS 9-1100		
				12. Serial Number		
				N/A		
13. System				14. Ref. E. O. Number		
COMMUNICATIONS				N/A		
15. TPS Short Title						16. Wt. Req.
DELETION OF STEPS 15 & 16						N/A
17. Reason for Work: ELIMINATE NECESSITY FOR DEMATING PRESENT "PROPER" CONFIGURATION.						

* - GAEC MANDATORY INSPECTION POINTS

18. DESCRIPTION (Title or Type)	21. Insp.	
	Tech.	22. CONT. 23. NASA
1 ON PAGE 3 OF BASIC TPS DELETE STEPS 15 AND 16		1319
NOTE: THESE C-BAND HARDLINE CONNECTONS ARE CONFIGURED CORRECTLY PER LED 410-148 OR/AND FIG 1-1 OF OCP 8-38039-LTA-B		

19. Prepared By		20. Final Acceptance Date	
F. Barcomb		2/27/68	
REFER TO PROCEDURES FOR REQUIRED SIGNATURES		REFER TO PROCEDURES FOR REQUIRED SIGNATURES	
Contractor	Date	NASA	Date
[Signature]	2/26/68	[Signature]	2/27/68
[Signature]	2/26/68	[Signature]	2/27/68
[Signature]	2/26/68		
[Signature]	2/27/68		

1. T Y P E	A	Configuration Change	 TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER	2. TPS No. FC4133	M13
	B	Non-Configuration Change		3. S/C LTA-B	4. Cat 410
4. Mod. Sheet Number MOD 3				5. Page 1 of 1	
6. S/C No./Model No. LTA-8		7. Date 26 FEB	8. Time 1617	9. Need Date 90000	
10. Drawings, Documents, Ocp's, & Part Number(s) NONE				11. Contract Number NAS-9-1100	
				12. Serial Number N/A	
13. System COMMUNICATIONS				14. Ref. E. O. Number	
15. TPS Short Title CHAMBER 'B' VHF HARDLINE CONNECTION					16. Wt. Req.
17. Reason for Work: PREVENT DEMATING PRESENT CONNECTOR CONFIGURATION.					
* — GAEC MANDATORY INSPECTION POINTS					
1	ON PAGE 3 OF THE BASIC TPS DELETE STEPS 11 THRU 14			21. Tech.	Insp. 22. CONT. 23. NASA
				695	
NOTE REF. TPS FC <u>4173</u>					
19. Prepared By E. Garcomb.				20. Final Acceptance Date 2-29-68	
REFER TO PROCEDURES FOR REQUIRED SIGNATURES				REFER TO PROCEDURES FOR REQUIRED SIGNATURES	
Contractor		Date		NASA	
		2/26/68			
A. Garcomb		2/26/68		2/29/68	
		2/29/68		2/29/68	
0915		2/29/68			

rel made

TYPE P Z	A	Configuration Change	X	TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER	2. TPS No.	FC 4165	
	B	Non-Configuration Change			3. <i>LTA-8</i>	Cat <i>410</i>	No. <i>N/A</i>
1. Mod. Sheet Number <i>N/A</i>					5. Page <i>1</i> of <i>7</i>		
6. S/C No./Model No. <i>LTA-8</i>				7. Date <i>17 JAN 68</i>	8. Time <i>1350</i>	9. Need Date	
10. Drawings, Documents, Ocp's, & Part Number(s) <i>OCF B 38039</i> <i>LDW 410-10859 RELATED EO A3</i>					11. Contract Number <i>NAS 9-1100</i>		
					12. Serial Number <i>N/A</i>		
13. System <i>COMMUNICATIONS</i>					14. Ref. E. O. Number <i>N/A</i>		
15. TPS Short Title <i>CHAMBER 'B' S-BAND RF HARDLINE CONNECTION.</i>						16. Wt. Req. <i>N/A</i>	
17. Reason for Work: <i>EO A3 OF LDW 410-10859</i>							

— GAEC MAIND'N ONLY INSPECTION POINTS — *

	18. DESCRIPTION (Print or Type)	21. Tech.	Insp.	
			22. CONT.	23. NASA
1	DEMATE P1149 OF CABLE LDW 410-10859 FROM J1101 INTERSTAGE CONNECTOR	E53	<i>118</i> <i>2/28/68</i>	
2	DELIVER INTERCONNECTING "ADAPTER" OF STEP 1 TO TEST ENGINEERING	E53	<i>918</i> <i>2/28/68</i>	
3	REF. CABLE LDW 410-10859 A - INCORPORATE MODIFICATION PER EO A3 B - STAMP OFF THE CONFIGURATION CARD.	E53	<i>741357 2</i> <i>1357/29</i> <i>1357/68</i>	
4	MATE NEW P1149 (LSC 380-00602-03) OF CABLE LDW 410-10859-3-1 TO J1101 INTERSTAGE CONNECTOR	E53	<i>1356</i> <i>2/28/68</i>	
<i>E. G. B.</i>				

19. Prepared By <i>E. Barcomb.</i>		20. Final Acceptance Date <i>1356 2/28/68</i>	
REFER TO PROCEDURES FOR REQUIRED SIGNATURES		REFER TO PROCEDURES FOR REQUIRED SIGNATURES	
Contractor	Date	NASA	Date
<i>[Signature]</i>	<i>1/18/68</i>	<i>[Signature]</i>	<i>1/18/68</i>
<i>[Signature]</i>	<i>1-18-68</i>	<i>[Signature]</i>	<i>1/18/68</i>
<i>[Signature]</i>	<i>1-18-68</i>	<i>[Signature]</i>	<i>1-18-68</i>

TEST PREPARATION SHEET

CONTINUATION SHEET

NASA - MANNED SPACECRAFT CENTER

TPS No.

FC 4165

S/C

LTA-8

Cat.

410

No.

N/A

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of

7

DESCRIPTION (Print or Type)

Tech.

Insp.

Cont.

NASA

NOTE: * - GAEC MANDATORY INSPECTION POINTS

1) LEVEL "C" CLEANLINESS CONDITIONS
SHALL BE MAINTAINED AT ALL TIMES
DURING ALL PHASES OF THIS TPS

2) THE FOLLOWING STEPS CONSTITUTE
A VSWR RETEST.

5 EQUIPMENT REQUIRED.

A) SIGNAL GENERATOR	HP 8616 A	E30	1356
B) SWR METER	HP 415 D	E30	1355
C) 50 Ω TERMINATION		E30	
D) ADAPTERS	AS REQUIRED	E30	
E) SLOTTED LINE	HP 805 C	E30	1356
F) BROAD BAND PROBE	HP 442 B	E30	
G) 1N21C X'TAL			
H) CO-AXIAL ISOLATOR	SPERRY D 44 S15	E30	
I) SQUARE WAVE GENERATOR			
OR EQUIVALENT ITEMS AS REQUIRED.			

QC Note

item G - not required as item F has
internal to its 1N21C
item I not required as item A has
this capability

TEST PREPARATION SHEET

CONTINUATION SHEET

NASA - MANNED SPACECRAFT CENTER

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GAEC MANDATORY INSPECTION POINTS

DESCRIPTION (Print or Type)

Tech.

Insp.

Cont.

NASA

6 TEST SET UP - VSWR G/O
(S-BAND)

E30

11356

11356

SQ.
WAVE
GEN.

BROAD
BAND
PROBE

SIG.
GEN.

ISOLATOR

SLOTTED
LINE

(a)

50 Ω

TERMIN.

(b)

PATH
UNDER
TEST

FIG. 1

- (A) SET UP EQUIP'T OF STEP 5 PER FIG 1 WITH (a) ON THE LINE
- (B) USING 1KC MODULATION OBTAIN A RDG. ON SWR METER.
- (C) ADJUST SLOTTED LINE FOR MAX. RDG. ON THE SWR METER.
- (D) ADJUST SWR METER FOR 1.0 ON THE SWR SCALE.

(E) ADJUST SLOTTED LINE FOR MIN. INDICATION ON SWR METER AND RECORD SCALE RDG.

(F) INSERT (b) IN THE LINE PER FIG 1.

(G) REPEAT SUBSTEPS (A) THRU (E)

TEST PREPARATION SHEET

CONTINUATION SHEET

NASA - MANNED SPACECRAFT CENTER

TPS No.

FC 4165

S/C

LTA-8

Cat.

410

No.

N/A

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GAEC MANDATORY INSPECTION POINTS

Tech.

Insp.

Cont.

NASA

7 CTS(LDW 410-32280) PATCH CONFIGURATION

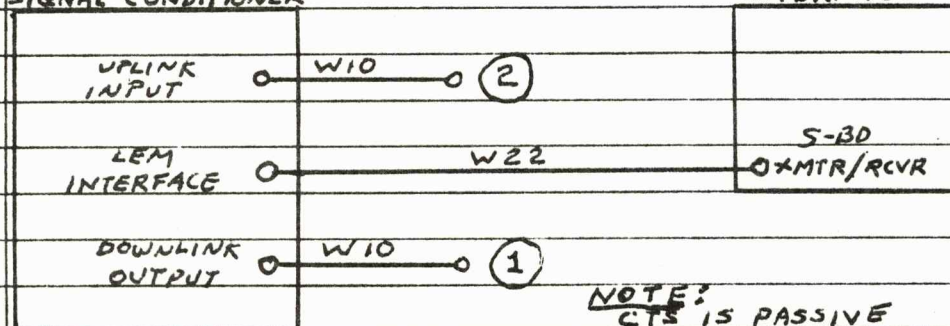
E30

1356

7/1/68

S-BAND
SIGNAL CONDITIONER

LEM
VEHICLE
INTERFACE



NOTE:
CTS IS PASSIVE
(PWR OFF) FOR THIS
C/O.

FIG. 2

8* ENSURE CTS CONFIGURATION PER FIG 2

E30

1356

7/1/68

9* RECORD SCALE RDG. FROM STEP 6(E)

VSWR(2101.8) 1.055:1

E30

1356

VSWR(2282.5) 1.045:1

E30

1356

7/1/68

NOTE: STEP 9 MAY BE PERFORMED OUT OF
SEQUENCE IN STEPS WHICH FOLLOW.

10* DEMATE P/J 384 P1149/J1101 AS PER
MOD 5

E30

1356

7/1/68

TEST PREPARATION SHEET

CONTINUATION SHEET

NASA - MANNED SPACECRAFT CENTER

TPS No.

FC 4165

S/C

LTA-8

Cat.

410

No.

N/A

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7

* - GAEG MANDATORY INSPECTION POINTS

Tech.

Insp.

Cont.

NASA

USING TEST SETUP SHOWN IN FIG 1

E30

1356

12/1/68

WAIVED (A) SET SIG. GEN. TO 2101.8 Mc (DIAL ACCURACY)

E30

1356

12/1/68

(B) PLACE SIGNAL INPUT AT P 384 OF CABLE

E30

1356

12/1/68

P/149 AS PER MOD 5

(C) PLACE 50 Ω TERMINATION AT ① PER FIG 2.

E30

1356

12/1/68

(D) DETERMINE AND RECORD THE VSWR

E30

1356

12/1/68

(E) SET SIG. GEN. TO 2282.5 Mc (DIAL ACCURACY)

E30

1356

12/1/68

(F) REPEAT SUBSTEPS (B) THRU (D)

E30

1356

12/1/68

VSWR(2101.8 Mc) 1.34 : 1

E30

VSWR(2282.5 Mc) 1.33 : 1

E30

LIMIT: NMT 1.5 : 1.0

NOTE:

NMT MEANS "NOT MORE THAN"

12* REMOVE SIGNAL INPUT FROM P 384 1149

E30

1356

12/1/68

AS PER MOD 5

13* REMATE P/U 384 1149/1101

E30

1356

12/1/68

AS PER MOD 5

TEST PREPARATION SHEET

CONTINUATION SHEET

NASA - MANNED SPACECRAFT CENTER

TPS No.

FC 4165

S/C

LTA-8

Cat.

410

No.

N/A

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of

7

DESCRIPTION (Print or Type)

Tech.

Insp.

Conf.

NASA

NOTE: * - GAEC MANDATORY INSPECTION POINTS

1) THE FOLLOWING STEPS

CONSTITUTE AN S-BAND
HARDLINE INTERFACE LIVE
(POWER ON) RETEST.

2) ACE SUPPORT NOT REQUIRED FOR
STEPS 14 THRU 19

14 * PERFORM PARA. 6 UNDER TEST SET UP ON PAGE 1-14
OF OCP B 38039

15 * PERFORM PARA. 7 UNDER TEST SET UP ON PGS. 1-14
AND 1-15 OF OCP B 38039

NOTE (SEE M3 STEP 1 FOR REF STEP) ADD PER M4 STEP 13)

16 * PERFORM PRE-CHECKOUT PREPARATION PER
CHECKLIST ON PGS. 1-17 THRU 1-20
OF OCP B 38039 NOTE (SEE M3 STEP 2 FOR REF STEP)

17 * PERFORM ENTIRE SEQUENCE 01 (PG'S 2.1 THRU 2-6)
OF OCP B 38039

18 * PERFORM ENTIRE SEQUENCE 02 (PG'S 2.7 THRU 2.11)
OF OCP B 38039

(CHANGE STEP 18 PER M4 STEP 1A)

19 * PERFORM ENTIRE SEQUENCE 03 (PG'S 2.12 THRU 2.18)
OF OCP B 38039, (ADD PER M4 STEP 1b)

AS PER MOD 5

E.B.B.

TEST PREPARATION SHEET

CONTINUATION SHEET

NASA - MANNED SPACECRAFT CENTER

TPS No.

FC 4165

S/C

LTA-B

Cal.

410

No.

N/A

Page

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of

7

DESCRIPTION (Print or Type)

Tech.

Insp.

Cont.

NASA

NOTE: * - GAEC MANDATORY INSPECTION POINTS
ACE SUPPORT IS REQUIRED

20 ENSURE VEHICLE POWER UP PER

TPS EPS 3300, PAGE 27 (DELETE PER MI STEP 5)
3350 (PER MI STEP 3)

(20A ADD PER M4 STEP 2)

21 PERFORM ENTIRE SEQUENCE 06 (PG'S. 2.28 THRU 2.30)

OF OCP B 38039

(ADD PER M4 STEP 3) (21b ADD PER M4 STEP 4)

21b PERFORM ENTIRE SEQUENCE 07 (PG'S. 2.31 THRU 2.32)

OF OCP B 38039

21c (PER MI STEP 4) (ADD NOTE PER M4 STEP 9 & 12) - TPS 4171 -

22 PERFORM VEHICLE POWER DOWN PER

TPS EPS 3300
3350 (PER MI - STEP 3)

NOTE:

STEP 22 MAY BE
DELETED IF POWER AND
COOLING ETC. ARE REQ'D
FOR OTHER SUBSYSTEMS

(ADD STEP 23 PER M4 STEP 6)

(ADD STEP 25 PER M4 STEP 5)

(ADD STEP 24 PER M4 STEP 7)

(ADD NOTE PER M4 STEP 8)

1. TYPE	A	Configuration Change	1-90-68 TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		2. TPS No.	4C4165M1	
	B	Non-Configuration Change			3. S/C	Cat	No
4. Mod. Sheet Number			MOD 1		5. Page 1 of 1		
6. S/C No./Model No.			LTA-8		7. Date 19 JAN 68		
					8. Time 0955		
10. Drawings, Documents, Ocp's, & Part Number(s)					11. Contract Number		
SEE BASIC					NAS 9-1100		
13. System					12. Serial Number		
COMMUNICATIONS					N/A		
15. TPS Short Title					14. Ref. E. O. Number		
SEE BASIC					N/A		
16. Wt. Req. N/A							
17. Reason for Work: SEE BASIC							
GAEC MANDATORY INSPECTION POINTS							
18. DESCRIPTION (Print or Type)					21.	Insp.	
					Tech.	22. CONT.	23. NASA
1. ADD NOTE 1 AS FOLLOWS,							
TPS FC 4169 AND TPS FC 4171					DELETE		
ARE TO BE ACCOMPLISHED PRIOR TO					PER M 4		
STEP 22 (VEHICLE POWER DOWN)					STEP 10		
OF TPS FC 4165.							
2. ADD NOTE 2 AS FOLLOWS					DELETED		
COMM. SOFT CAP IS REQUIRED					PER M 4		
FOR PERFORMING THIS TPS.					STEP 11		
3. IN STEPS 20 AND 22 CHANGE "EPS 3300"							
TO "EPS 3350." 2-2-8							
4. CHANGE THE SECOND STEP "21" TO STEP "21A"							
2-2-8							
5. IN STEP 20, DELETE "PAGE 27." 2-2-8							
2-2-8							
19. Prepared By				20. Final Acceptance Date			
E. Barcomb				3/19/68			
REFER TO PROCEDURES FOR REQUIRED SIGNATURES				REFER TO PROCEDURES FOR REQUIRED SIGNATURES			
Contractor		Date		NASA		Date	
		1/19/68				1/20/68	
		1/20/68				1/20/68	
		1-20/68				3/11/68	

1. TYPE	A	Configuration Change	1-22-68		2. TPS No.	FC 4165 M2	
	B	Non-Configuration Change	TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		3. S/C	Cat	No.
4. Mod. Sheet Number		MOD 2		7. Date	22 JAN 68	8. Time	0855
6. S/C No./Model No.		LTA-8		9. Need Date		11. Contract Number NAS-9-1100	
10. Drawings, Documents, Ocp's, & Part Number(s)		see BASIC		12. Serial Number		N/A	
13. System		COMMUNICATIONS		14. Ref. E. O. Number		N/A	
15. TPS Short Title		see BASIC		16. Wt/Req.		N/A	
17. Reason for Work: see BASIC							
GAEC MANDATORY INSPECTION POINTS							
18. DESCRIPTION (Print or Type)				21. Insp.			
I ADD NOTE AS FOLLOWS,				Tech.		22. CONT. 23. NASA	
STEPS MAY BE PERFORMED OUT OF SEQUENCE AT THE DISCRETION OF THE TE.							
19. Prepared By				20. Final Acceptance Date			
L. Barcomb				2/22/68			
REFER TO PROCEDURES FOR REQUIRED SIGNATURES				REFER TO PROCEDURES FOR REQUIRED SIGNATURES			
Contractor		Date		NASA		Date	
W. R. Kish		1/22/68		W. R. Kish		1/22/68	
G. L. Leland		1-22-68		L. E. Leland		3/1/68	

1. TYPE	A	Configuration Change	TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER	2. TPS No.	FC 4165 MOD 3	
	B	Non-Configuration Change		3. S/C	Cat.	No.
4. Mod. Sheet Number			MOD 3	5. Page	1	of
6. S/C No./Model No.			LTA-8	7. Date		23 JAN 68
				8. Time		0830
10. Drawings, Documents, Ocp's, & Part Number(s)			SEE BASIC			
13. System			COMMUNICATIONS			
15. TPS Short Title			SEE BASIC			
17. Reason for Work:			SEE BASIC			

BASIC MANDATORY INSPECTION POINTS

18. DESCRIPTION (Print or Type)	21.	Insp.	
	Tech.	22. CONT.	23. NASA
1. REFERENCE STEP 15 OF BASIC TPS			
A. UNDER S-BD FM/PM RCV (2A2)			
CHANGE IF FILTER (I-711-B(C)) TO			
I-711-E(C)			
B. UNDER VHF RCV (10A4) CHANGE IF			
FILTER (I-711-E(C)) TO I-711-B(C).			
② CHANGE AM/FM DEMODULATOR			
(D-711-D(C)) TO (D-711-A(C))			
2. REFERENCE STEP 16 OF BASIC TPS.			
A. UNDER VHF RCV (10A4) ON PAGE 1-19			
PERFORM THE FOLLOWING.			
① IF FILTER		30 KC.	
② VIDEO FILTER		6.25 KC.	
③ DEVIATION RANGE		7.50 KC.	

19. Prepared By		20. Final Acceptance Date	
John C. Feltus		2/29/68	
REFER TO PROCEDURES FOR REQUIRED SIGNATURES		REFER TO PROCEDURES FOR REQUIRED SIGNATURES	
Contractor	Date	NASA	Date
W. J. Taylor	1/23/68	W. J. Taylor	1/23/68
E. J. Campbell	1/23/68	Earl G. Balun	1-23-68
G. Serrano	1/23/68	RE Law	3-1-68

I T Y P E	A	Configuration Change	NSO FORM 1	2. TPS No.	FC 4165 M4		
	B	Non-Configuration Change		3. S/C No.	Cat.	No.	
4. Mod. Sheet Number			TEST PREPARATION SHEET		LTA-8		
NASA - MANNED SPACECRAFT CENTER			5. Page		1 of 3		
6. S/C No./Model No.			7. Date	8. Time	9. Need Date		
LTA-8			30 JAN 68	1650			
10. Drawings, Documents, Ocp's, & Part Number(s)					11. Contract Number		
LPN 410-10859 & RELATED EoAs					NAS 9-1100		
13. System					12. Serial Number		
COMMUNICATIONS					N/A		
15. TPS Short Title					16. Wt. Req.		
CHAMBER'S S-BAND RF HARDLINE CONNECTION.					N/A		
17. Reason for Work: ELIMINATION OF SUPERFLUOUS SEQUENCES & UPDATE THE TPS.							
* - GAEC MANDATORY INSPECTION POINTS							
18. DESCRIPTION (Print or Type)				21.	Insp.		
				Tech.	22. CONT.	23. NASA	
1 ON PAGE 6 OF BASIC TPS							
A) CHANGE STEP 18 TO READ AS FOLLOWS:							
"PERFORM SEQUENCES 02-010 THRU 02-027							
OF OCP B-38039.							
B) ADD THE FOLLOWING TO STEP 19,							
"OMIT THE FOLLOWING SEQUENCES							
03-005							
03-007 SUBSTEPS 17 THRU 20							
03-012 THRU 03-14 "							
2 ON PAGE 7 OF BASIC TPS ADD AS FOLLOWS,							
20A ENSURE VEHICLE COOLING ON PER TPS-ECS 2264							
3 ON PAGE 7 OF BASIC TPS ADD THE FOLLOWING TO STEP 21							
"OMIT THE FOLLOWING SEQUENCES," 06-003,							
06-006 SUBSTEP 05							
06-009 AND 06-010."							
19. Prepared By				20. Final Acceptance Date			
E. Barcomb				2/22/68			
REFER TO PROCEDURES FOR REQUIRED SIGNATURES				REFER TO PROCEDURES FOR REQUIRED SIGNATURES			
Contractor		Date		NASA		Date	
GAC		1/31/68		J. J. J...		1/31/68	
M. J. J...		1-31-68		E. C. C...		1-31-68	
J. J. J...				R. J. J...		8-1-68	

TEST PREPARATION SHEET

CONTINUATION SHEET

NASA - MANNED SPACECRAFT CENTER



TPS No.

FC4165M4

S/C LTA-8

Cat. 410

No. N/A

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of

3

DESCRIPTION (Print or Type)

Tech.

Insp.

Cont.

NASA

4 ON PAGE 7 OF BASIC TPS ADD THE FOLLOWING.
21B PERFORM ENTIRE SEQUENCE 13 OF
OCP-B-38039 *changed see mod 5*

5 ON PAGE 7 OF BASIC TPS ADD STEP AS FOLLOWS
23 ENSURE COOLING OFF PER TPS ECS 2264

6 ADD STEP 23 AFTER 22 IN THE NOTE ON PAGE 7
OF THE BASIC TPS

7 ON PAGE 7 OF BASIC TPS ADD STEP AS FOLLOWS
24 PERFORM SEQUENCES 16-000 THRU
16-006 OF OCP B 38039. *see steps 8*

8 ADD NOTE AS FOLLOWS.
STEP 24 MAY BE OMITTED, AT THE DISCRETION,
IF CTS POWER UP CONDITION
IS REQUIRED FOR OTHER TPS'S.

9 ADD NOTE AS FOLLOWS
REF. STEP 21A PG 7, BASIC TPS.
DISREGARD ALL CRT PAGE &
LINE CALL OUTS; ONLY
GTO ID'S NEED APPLY. *(DO NOT DISREGARD THE MEASUREMENT.)*

10 REF. MOD 1 PAGE 1 STEP 1;
DELETE STEP 1

11 REF. MOD 1 PAGE 1, STEP 2;
DELETE STEP 2.

12 ON PAGE 7 OF BASIC TPS ADD THE FOLLOWING TO STEP 21
"OMIT SEQUENCE 06-008 SUBSTEPS 3 THRU 07"

NASA - MANNED SPACECRAFT CENTER



FC 4165 M4

S/C
LTA-8

Cat.
410

No. *2/A*

Page

9

3

[illegible]

1. TYPE	A	Configuration Change	3-7-68	2. TPS No.	4165 H005	
	B	Non-Configuration Change			3. S/C	Cat.
4. Mod. Sheet Number			TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER	5. Page 1 of 2		
6. S/C No./Model No.				9. Need Date		
7. Date			11. Contract Number			
8. Time			12. Serial Number			
10. Drawings, Documents, Ocp's, & Part Number(s)			14. Ref. E. O. Number			
13. System			16. Wt. Req.			
15. TPS Short Title			17. Reason for Work:			

BASIC MANDATORY INSPECTION POINTS

18. DESCRIPTION (Print or Type)	21. Tech.	Insp.	
		22. COMT.	23. NASA
• 1 CHANGE STEP 10 OF BASIC TO READ: "REMADE P1149 FROM J1101"	E30		
2 CHANGE STEP 11 B OF BASIC TO READ "P1149 IN LIEU OF P384"	E30		
3 CHANGE STEP 12 OF BASIC TO READ P1149 IN LIEU OF P384	E30		
4 CHANGE STEP 13 OF BASIC TO READ: REMADE P1149 TO J1101	E30		
5 DELETE STEP 14 THRU 19 OF BASIC	E30		
6 DELETE STEP 21 OF BASIC AND SUBSTITUTE (a) PANEL 16 COMM, ROW 3 PRESS PRIM J-BO XMTA/RXR	E30		
(b) PRESS PMP	E30		
(c) PRESS DISPLAYS	E30		
(d) ON PANEL 12 COMM, SET J-BO XMTA/RXR SW TO "PRIM"	E30		

19. Prepared By		20. Final Acceptance Date	
A. SAMPSON / BARCOMB		2/29/68	
REFER TO PROCEDURES FOR REQUIRED SIGNATURES		REFER TO PROCEDURES FOR REQUIRED SIGNATURES	
Contractor	Date	NASA	Date
A. SAMPSON	2/29/68	W. J. Taylor	2/29/68
Wesley K Jones	2/29/68	R. E. Pan	3/1/68
2/29-8			

107

TEST PREPARATION SHEET

CONTINUATION SHEET

NASA - MANNED SPACECRAFT CENTER

GAEC MANDATORY INSPECTION POINT

TPS No.

4165 MOD 5

S/C

Cat.

No.

Page

2

of

2

DESCRIPTION (Print or Type)

Tech.

Insp.

Cont.

NASA

~~VII~~ CHANGE STEP 21A OF BASIC TO READ:
VERIFY/PERFORM S-BD UPLINK LOCK
per ocy 38039 Seq 07-000 THRU 07-003

E30

379

~~VIII~~ DELETE ENTIRE MOD 3 OF TPS 4165

E30

379

~~IX~~ DELETE FOLLOWING STEP OF M-4 TPS 4165

- STEP 1A, STEP 1B, STEP 3,
STEP 9, STEP 12 AND STEP 13

E30

E30

~~X~~ CHANGE M-4 STEP 4 TO READ
(A) ON PANEL 12 COMM SET S-BD XMT/RCV
TO 'OFF'

E30

379

(K) PANEL 16 ROW 3 COMM PULL DISPLAY

E30

379

(C) PULL PHP

E30

379

(D) PULL PRI S-BD XMT/RCV

E30

379

NOTE: CTS IS CONFIGURED / SET UP TO
SUPPORT S-BD LOCK-UP

APOLLO TEST SITE CHANGE INCORPORATION DIRECTIVE

SITE: ☒ MSC ☐ WSTF ☐ KSC ☐ OTHER _____				DATE FORM PREPARED 1-18-68	
CID NUMBER GAFC 543		ORIGINATOR (NAME, DEPT., & TEL. EXT.) E. Barcomb X5188		CONTRACTOR GAFC	
CHANGE NUMBER LDW 10-10859	REL. DATE A3	ON SITE (E.O.)	HOME PLT. (E.O.)	CHANGE TYPE: ☐ MAKE WORK ☐ COMPATIBILITY S/C VEHICLE COMMAND MODULE SERVICE MODULE LEM G & N SYSTEM ACE X GSE LDW 410-11100 TEST TOOLS OTHER	NUMBER
REFERENCE CHANGES					
EOP REQUIRED ☐ YES ☐ NO If yes, note reference in Remarks block		SPARES AFFECTED ☐ YES ☐ NO If yes, note reference in Remarks block			

SUBJECT
Facilitate mating of P1119 to J1101

CHANGE DESCRIPTION
GRUMMAN AIRCRAFT ENGINEERING CORPORATION
QUALITY CONTROL DEPARTMENT
Incorporate HOUSTON OPERATIONS

E.O. IDW 410-10359 A3 ENTERED IN
SEL 410-11100 AUTHORIZED BY
TPS 4165
DATE 3/2/68 INSP. 1359 (TPS FC 4165)

EFFECTIVITY OF CHANGE

COMMON/CONCURRENT USE GSE CHANGE APPROVALS (This section will be completed only for changes to concurrent common use GSE.)

CHANGE TO: ☐ COMMON USE GSE ☐ CONCURRENT USE GSE	GSE MODEL _____	S N _____
CONTRACTOR REP. APPROVAL	DATE	CONTRACTOR REP. APPROVAL

REMARKS

CHANGE DISPOSITION ☐ APPROVED AS WRITTEN ☐ APPROVED AS REVISED IN REMARKS ☐ DEAPPROVED	SIGNATURE OF SITE PANEL CHAIRMAN <i>[Signature]</i>	DATE <i>3/18/68</i>
--	--	------------------------

NO RML REQ'D (210) SUPPORT REQ'D. rel made

1. TYPE	A	Configuration Change	X	TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		2. TPS No.	4173	
	B	Non-Configuration Change				3. S/C	Cat	No
4. Mod. Sheet Number				N/A		LTA-8	410	N/A
6. S/C No./Model No.				LTA-8		5. Page	1	of 1
7. Date				26 FEB 68		9. Need Date	3-9-68	
8. Time				1550		PRIOR TO OCP 90000		
10. Drawings, Documents, Ocp's, & Part Number(s)						11. Contract Number		
LDW 390-28014 EO H6						NAS 9-1100		
LDW 380-21000 EO F4						12. Serial Number		
						N/A		
13. System						14. Ref. E. O. Number		
COMMUNICATIONS						LCD 20257		
15. TPS Short Title						16. Wt. Req.		
CHAMBER 'B' VHF, RF HARDLINE CONNECTION.						N/A		
17. Reason for Work: MAINTAIN PRESENT VHF RF HARDLINE CONNECTION TO LTA-8.								

* - GAEC MANDATORY INSPECTION POINTS		21. Insp.
18. DESCRIPTION (Print or Type)		22. GONT.
		23. NASA
1	VERIFY STEP 5 ON PAGE 2 OF TPS FC 4133	529 3/7/68
NOTE: INCORPORATE REF.		
a) EO H6 OF LDW 390-28014		
b) EO F4 OF LDW 380-21000		
REF. ONLY FOR F4		
2	STAMP CAT CARD LDW 390-28014 - H6	529 3/7/68
3	PAPERWORK ONLY - WORK WAS ACCOMPLISHED ON STEP 5 OF TPS 4133	529 3/7/68

19. Prepared By		20. Final Acceptance Date	
E. Barcomb.		3/7/68	
REFER TO PRO. EDURES FOR REQUIRED SIGNATURES		REFER TO PROCEDURES FOR REQUIRED SIGNATURES	
Contractor	Date	NASA	Date
[Signature]	2/27/68	[Signature]	2/28/68
[Signature]	2/27/68	[Signature]	2/29/68
[Signature]	2/27/68	[Signature]	3-1-68
[Signature]	2/28/68		

APOLLO TEST SITE CHANGE INCORPORATION DIRECTIVE

SITE: ☒ MSC ☐ WSTF ☐ KSC ☐ OTHER _____		DATE FORM PREPARED 2-28-68	
CID NUMBER LTA-8 5114		ORIGINATOR (NAME, DEPT., & TEL. EXT.) E. Barcomb	
REV.		CONTRACTOR GAEC	
CHANGE NUMBER LDW390-28014	REL. DATE H6	ON SITE (F.E.Q.)	HOME PLT. (E.O.)
REFERENCES CHANGES		CHANGE TYPE: ☐ MAKE WORK ☐ COMPATIBILITY	
ECP REQUIRED ☐ YES ☐ NO If yes, note reference in Remarks block.		SP. RES AFFECTED ☐ YES ☐ NO If yes, note reference in Remarks block.	
SUBJECT GRUMMAN AIRCRAFT ENGINEERING CORPORATION Hardline point change QUALITY CONTROL DEPARTMENT		C H A N G E A F F E C T S	
CHANGE DESCRIPTION HOUSTON OPERATIONS		NUMBER	
E. O. Verify EO H6 LDW 390-28014		S/C VEHICLE	
ENTERED IN		COMMAND MODULE	
SEL 75390		SERVICE MODULE	
TPS 4173		X LEM LTA-8	
DATE 3/8/68		G & N	
INSP. 529		SYSTEM	
		ACE	
		GSE	
		TEST TOOLS	
		OTHER	

(TPS 4173)

EFFECTIVITY OF CHANGE			
COMMON/CONCURRENT USE GSE CHANGE APPROVALS (This section will be completed only for changes to concurrent common use GSE.)			
CHANGE TO:	☐ COMMON USE GSE	☐ CONCURRENT USE GSE	GSE MODEL _____ S/N _____
CONTRACTOR REP. APPROVAL	DATE	CONTRACTOR REP. APPROVAL	DATE
REMARKS:			
CHANGE DISPOSITION		SIGNATURE OF SITE PANEL CHAIRMAN	
APPROVED AS WRITTEN <u>WWT</u>		<u>WWT</u>	
APPROVED AS REVISED IN REMARKS			
DISAPPROVED			
		DATE 2/29/68	

1. TYPE	A	Configuration Change	12-9-67 TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER	2. TPS No.	MOD.I INS 6169		
	B	Non-Configuration Change		X	ETA/SG	Cat.	No.
4. Mod. Sheet Number			MOD I	5. Page 1 of 1			
6. S/C No./Model No.			LTA-8	7. Date	12-9-67	8. Time	2100
10. Drawings, Documents, Ocp's, & Part Number(s)			OCP 63008		9. Need Date		OCP-36021
13. System			EPS		11. Contract Number		NAS 9-1100
15. TPS Short Title			POWER UP OF VEHICLE		12. Serial Number		N/A
17. Reason for Work:			SUPPORT OCP 36021		14. Ref. E. O. Number		N/A
					16. Wh. Req.		N/A
18. DESCRIPTION (Print or Type) OF OCP-63008				21. Tech.	In:p.		22. CONT.
1. PERFORM SECTION 1 AND SECTION 2 (SEQUENCE 1 THRU 4) IN SUPPORT OF OCP 36021.				E27	998		
3. PERFORM SECTION 2 (SEQUENCE 5 THRU 8) OF OCP 63008 UPON COMPLETION OF OCP-36021.				E27	1183		
4. CHANGE PARAGRAPH 1 OF BASIC TPS TO BE PARAGRAPH 2.				E27	1183		
19. Prepared By				20. Final Acceptance Date			
B. JOHNSTON X5967				E27 1183			
REFER TO PROCEDURES FOR REQUIRED SIGNATURES				REFER TO PROCEDURES FOR REQUIRED SIGNATURES			
Contract to		Date		NASA		Date	
B. Johnston		12-9-67		W. Taylor		12-9-67	
J. Rando		12-9-67		R. E. Sand		12-9-67	
J. L. Cognot		12-9-67					

1. Category F		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER					PAGE 1 OF 1	
2. Article Name		3. Drawing Number		4. Serial/Lot Number		5. RECORD NUMBER IDR TPS6169.1 DR/MRR		
6. Contractor's Name		7. Contractor's Drawing Number		8. Contractor's Serial Number		12. Next Higher Assy.		
9. Supplier's Name		10. Supplier's Drawing Number		11. Supplier's Serial No.		19. Disposition		
13. R&F. Document No.		14. Spacecraft		15. Fault		16. Funct.		17. Cause/Origin
18. System								

DISCREPANCY

REF. SEC 04-007 SUB-STEP 03 DEV. 16A
ON PNL #1 "CES-AC", "CES-DC", "RCS-TCA" LIGHTS DID
NOT ILLUMINATE.

20. Initiator's Signature Dean Glass		21. Stamp Number G998		22. Organization and Location of Initiator BAEC/MS		23. Date 12/10/67	
--	--	---------------------------------	--	--	--	-----------------------------	--

DISPOSITION

24. MR Action Required? ☐ Yes ☐ No		25. Replacement Part Number		26. Retest Required ☐ Yes ☐ No		27. Retest Accept Date		28. FIAR Number	
29. MRB Decision ☐ USE "AS IS" ☐ REPAIR ☐ REWORK ☐ SCRAP		CLASSIFICATION 2. INSTRUCTIONS 1. TROUBLESHOOT PER CONTINUATION SHEETS.							QC STAMP CONT NASA

BAEC W.H. Johnston 12-10-67
W.H. Johnston
CLASS 45

DISPOSITION: CLOSE THIS D/R AT THE POST-TEST MEETING BY MAKING A PERMANENT DEVIATION TO OCP-63008.

DISPOSITION: PERMANENT DEVIATION #15 TO SET ANNU/NUM TO 11 MID RANGE.

BAEC W.H. Johnston 12-10-67
W.H. Johnston

30. DATE **1-8-8-** FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)		DATE		32. System Engineer (NASA)		DATE	
33. Quality Control Rep. (Contractor)		DATE		34. Quality Control Rep. (NASA)		DATE	
35. Program Office Rep. (Office Code)		DATE		36. Quality Engineer (NASA)		DATE	

1. CATEGORY

DISCREPANCY REPORT/MATERIAL REVIEW RECORD
CONTINUATION SHEET
NASA MANNED SPACECRAFT CENTER

2.

PAGE 2 OF

3. RECORD NUMBER

IDR TPS 6169M1.1

DR/MRR

QC ST/MP
CONT. NASA

2. HAVE SSE INCREASE GAIN OF ANUN/NUM PNL. 5
DIMMER CONTROL TO MID RANGE. RESULTS:
"CES-AC", "CES-DC", "RCS-TA" ILLUMINATE.

CONCLUSION: OCP-63008 PAGE 1-34
"CALLS FOR ANUN/NUM CONTROL TO BE
DIM". AT THIS POSITION THE LIGHTS DO
NOT HAVE ENOUGH VOLTAGE.

ENG. NOTE. THIS D/R WILL REMAIN OPEN UNTIL
DOCUMENTS ARE UPDATED TO READ "MID-RANGE"
IN STEAD OF "DIM" ON PAGE 1-34 OF
OCP-63008.

GAEC W.N. Johnson 12-10-67
[Signature]

DATE:

FINAL ACCEPTANCE

1. TYPE A Configuration Change B Non-Configuration Change	X	149 11-22-67 TEST PREPARATION SHEET NASA - MANNED SPACECRAFT CENTER		2. TPS No.	EPS-3277	
				3. S/C	4. Co.	5. No.
1. Mod. Sheet Number				3. S/C	4. Co.	5. No.
				LTA-8	N/A	N/A
6. S/C No./Model No.		7. Date	8. Time	9. Need Date		
LTA-8 410-11100		11-22-67	1500	DURING OCP 42023		
10. Drawings, Documents, Ocp's, & Part Number(s)				11. Contract Number		
OCP 42023, OCP 63005				NAS 9-1100		
13. System				12. Serial Number		
EPS. CABLES				N/A		
15. TPS Short Title				14. Ref. E. O. Number		
PERFORM OCP 63005 SEQ 10, 11, 12				N/A		
17. Reason for Work:				16. Wt. Req.		
OCP OPERATIONS				N/A		
18. DESCRIPTION (Print or Type)				21.	Insp.	
				Tech.	22. CONT.	23. NASA
PERFORM SEQ 10, 11, 12 OF OCP - B-63005-LTA-8				21. EIL	22. 1356	23. 2-19-68
NASA QA NOTE: Portions worked on 1-25-68 MIP waived.						
" " " 1-26-68 0730 to 1600 "						
" " " 2-7-68 MIP WAIVED						
19. Prepared By				20. Final Acceptance Date		
J. McGREW				2-19-68		
REFER TO PROCEDURES FOR REQUIRED SIGNATURES				REFER TO PROCEDURES FOR REQUIRED SIGNATURES		
Contractor	Date	NASA	Date			
S. Jansen	11-22-67	W.H. Taylor	11-22-67			
H. Jansen	11-22-67	Albert B. J. J. J.	11-22-67			
G. Jansen	11-22-67					

[illegible]

A Configuration Change B Non-Configuration Change		2. TPS No. FM 5240	
3. Mod. Sheet Number		3. S/C Cat. No. LTA-B N/A N/A	
6. S/C No. Model No. LTA-B		9. Need Date OCP 77003	
7. Date 11-21-67		11. Contract Number NAS 9-1100	
8. Time N/A		12. Serial Number	
10. Drawings, Documents, Ocp's, & Part Number(s) OCP-B-63005		14. Ref. E. O. Number	
13. System PROPULSION		16. Wt. Req. N/A	
15. TPS Short Title PERFORM OCP-B-63005-SEQ 14		17. Reason for Work: CONNECT LNE SERVICE FLUID LINES TO CMTS AND ISS -GAEC MANDATORY INSPECTION POINTS	
18. DESCRIPTION (Print or Type)		21. Insp. Tech 22. CONT 23. NASA	
1.0 PERFORM OCP-B-63005 SEQUENCE 14, MAY BE RUN CONCURRENTLY WITH SEQ 7, STEP 14 OCP 42023. -NOTE- MAINTAIN LEVEL "B" CLEANLINESS		12-27-67 (135)	
19. Prepared By NICHOLS		20. Final Acceptance Date 12-28-67	
REFER TO PROCEDURES FOR REQUIRED SIGNATURES		REFER TO PROCEDURES FOR REQUIRED SIGNATURES	
Contractor Date W. H. Jones 12-14-67		NASA Date F. H. Jones 12-14-67	
Contractor Date P. J. Jones 12-14-67		NASA Date F. H. Jones 12-14-67	

1. Category

DISCREPANCY REPORT/MATERIAL REVIEW RECORD

NASA - MANNED SPACECRAFT CENTER

PAGE 1 OF 1

2. Article Name

3. Drawing Number

4. Serial/Lot Number

5. RECORD NUMBER

6. Contractor's Name

7. Contractor's Drawing Number

8. Contractor's Serial Number

IDR EPS
OCP-63005.1

DR/MRR

9. Supplier's Name

10. Supplier's Drawing Number

11. Supplier's Serial No.

12. Next Higher Assy.

3. REF. Document No.

14. Spacecraft

15. Fault

16. Funct.

17. Cause/Origin

18. System

19. Disposition

PS-323E10CP63005

LTA-B

DISCREPANCY

REF. OCP-63005-SEQ. 09-010 cable assy. CDW 450-5143-17 P-25 connector can not be found. To connect to J-25 connector

Ref OCP-63005-SEQ. 09-010 cable assy. CDW 450-5143-17 P-26 connector can not be found to connect to J-26 connector

20. Initiator's Signature

21. Stamp Number

22. Organization and Location of Initiator

23. Date

A. Caldwell

685

GAEC IMSC

11/10/67

DISPOSITION

24. MR Action Required?

☐ Yes ☒ No

25. Replacement Part Number

26. Retest Required

☐ Yes ☒ No

27. Retest Accept Date

28. FIAR Number

29. MRB Decision

INSTRUCTIONS

QC STAMP

CONT NASA

☐ USE "AS IS"☐ REPAIR☐ WORK☐ SCRAP

GSECB

1. TROUBLE SHOOT ITEMS 1 & 2 ON CONTINUATION SHEET.

J. J. Lippert GAEC X5967
Blanche Starn 11/11/67

2. VOID STEP 1

SA QA NOTE: Orig. disc. was merely guard held not installed in proper location. 11/12/67

3. Secure Guard Hexter in a position to allow enough slack to mate connectors. Perform Seq. 09-010

GAEC ENG A. Prime 11/11/67

J. J. Lippert 11/11/67

30. DATE

FINAL ACCEPTANCE

685

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)

DATE

32. System Engineer (NASA)

DATE

33. Quality Control Rep. (Contractor)

DATE

34. Quality Control Rep. (NASA)

DATE

35. Program Office Rep. (Office Code)

DATE

36. Quality Engineer (NASA)

DATE

1. Category <i>U</i>		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER				PAGE <i>1</i> OF <i>1</i>	
2. Article Name <i>Walt Assy.</i>		3. Drawing Number <i>LDW450-5143-23</i>		4. Serial/Lot Number <i>N/A</i>		5. RECORD NUMBER <i>EPS</i>	
6. Contractor's Name <i>GAEC</i>		7. Contractor's Drawing Number		8. Contractor's Serial Number		IDR <i>OCP63005.2</i>	
9. Supplier's Name <i>✓</i>		10. Supplier's Drawing Number		11. Supplier's Serial No.		DR/MRR <i>42013080-21</i>	
13. REF. Document No. <i>OCP-63005-TPE-3382</i>		14. Spacecraft <i>LTA-8</i>		15. Fault		16. Funct.	
				17. Cause/Origin		12. Next Higher Assy. <i>LDW450-9308</i>	
						18. System <i>EPS</i>	
						19. Disposition	

DISCREPANCY

Ref. OCP-63005- Seq. 09-013 cable Assy. LDW450-5143-23 connectors P-34 & P-35 connectors cannot be found to connect to J-34 & J-35 connectors.

20. Initiator's Signature <i>A. Caldwell</i>		21. Stamp Number <i>685</i>		22. Organization and Location of Initiator <i>GAEC/ MSC</i>		23. Date <i>11/10/67</i>	
---	--	--------------------------------	--	--	--	-----------------------------	--

DISPOSITION

24. MR Action Required? ☐ Yes ☐ No		25. Replacement Part Number		26. Retest Required ☐ Yes ☐ No		27. Retest Accept Date		28. FIAR Number	
---	--	-----------------------------	--	---	--	------------------------	--	-----------------	--

29. MRB Decision ☐ USE "AS IS" ☐ REPAIR ☐ REWORK ☐ SCRAP		INSTRUCTIONS <i>1. TROUBLE SHOOT PER CONTINUATION SHEETS.</i> <i>IF MR. SHAW GAEC X5967</i> <i>Machine Flaw 11/11/67</i>						QC STAMP CONT NASA	
--	--	---	--	--	--	--	--	-----------------------	--

2. VOID STEP 1.

GRAND NOTE: Org. disc. was much grander but not installed in proper location.

3.) Mount Guard Heater to provide sufficient slack to mate connectors re-Run Sequence 09-013.

GAEC ENG A. Prince 11/11/67

DD Input 11/11/67

30. DATE <i>11/12/67</i>		FINAL ACCEPTANCE <i>685</i>	
-----------------------------	--	--------------------------------	--

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)		DATE		32. System Engineer (NASA)		DATE	
33. Quality Control Rep. (Contractor)		DATE		34. Quality Control Rep. (NASA)		DATE	
35. Program Office Rep. (Office Code)		DATE		36. Quality Engineer (NASA)		DATE	

1. Category <i>11</i>		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER				PAGE <i>1</i> OF <i>1</i>	
2. Article Name <i>cable assy.</i>		3. Drawing Number <i>LDW450-5165-1</i>		4. Serial/Lot Number <i>NONE</i>		5. RECORD NUMBER <i>EPS</i>	
6. Contractor's Name <i>GAEC</i>		7. Contractor's Drawing Number		8. Contractor's Serial Number		IDR <i>0CP-63005-3</i>	
9. Supplier's Name <i>GAEC</i>		10. Supplier's Drawing Number		11. Supplier's Serial No.		12. Next Higher Assy. <i>LDW450-9303-</i>	
13. REF. Document No. <i>TPS-3722 0CP63005</i>		14. Spacecraft <i>LTA-8</i>		15. Fault		16. Funct.	
				17. Cause/Origin		18. System	
						19. Disposition	

DISCREPANCY

REF. 0CP-63005-SEQ-09-032 cable assy. LDW450-5165-1 connectors P-55, P-56, & P-57 cannot be found to connect to J-55, J-56, & J-57 connectors.

20. Initiator's Signature <i>A Caldwell</i>		21. Stamp Number <i>685</i>		22. Organization and Location of Initiator <i>GAEC/MSO</i>		23. Date <i>11/10/67</i>	
--	--	--------------------------------	--	---	--	-----------------------------	--

DISPOSITION

24. MR Action Required? ☐ Yes ☒ No		25. Replacement Part Number		26. Retest Required ☐ Yes ☒ No		27. Retest Accept Date		28. FIAR Number	
--	--	-----------------------------	--	--	--	------------------------	--	-----------------	--

29. MRB Decision		INSTRUCTIONS						QC STAMP	
☐ USE "AS IS" ☐ REPAIR ☐ REWORK ☐ SCRAP		<i>GAEC REB</i> <i>1. TROUBLE SHOOT PER CONTINUATION SHEETS.</i> <i>J. McHenry GAEC X 5967</i> <i>Franklin Starn 11/11/67</i>						CONT NASA 	

2. VOID STEP 1.

3.) Mount Guard Hertz To Provide Sufficient slack to mate connectors Re Run Sequence 09-032 GAEC ENG A. Prime 11/10/67 JJ Signit 11/11/67

30. DATE *11/11/67*

FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)		DATE		32. System Engineer (NASA)		DATE	
33. Quality Control Rep. (Contractor)		DATE		34. Quality Control Rep. (NASA)		DATE	
35. Program Office Rep. (Office Code)		DATE		36. Quality Engineer (NASA)		DATE	

1. Category <i>11</i>		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER				PAGE _____ OF _____	
2. Article Name <i>Cable Assy</i>		3. Drawing Number <i>LDW450-5275-1</i>		4. Serial/Lot Number <i>NONE</i>		5. RECORD NUMBER <i>EPS</i>	
6. Contractor's Name <i>GAEC</i>		7. Contractor's Drawing Number		8. Contractor's Serial Number		IDR <i>0CP63005.4</i>	
9. Supplier's Name <i>GAEC</i>		10. Supplier's Drawing Number		11. Supplier's Serial No.		DR/MRR	
13. REF. Document No. <i>TPS-3232 OCP-63005</i>		14. Spacecraft <i>LTA-8</i>		15. Fault		16. Funct.	
				17. Cause/Origin		12. Next Higher Assy. <i>LDW450-9308</i>	
						18. System <i>EPS</i>	
						19. Disposition	

DISCREPANCY

REF. OCP-63005-SEQ. 09-034 Cable Assy, LDW450-5275-1 connector P-38 cannot be connected due to J-38 connector cannot be found.

20. Initiator's Signature <i>A. Caldwell</i>		21. Stamp Number <i>685</i>		22. Organization and Location of Initiator <i>GAEC/ MSC</i>		23. Date <i>11/10/67</i>	
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DISPOSITION

24. MR Action Required? ☐ Yes ☐ No		25. Replacement Part Number		26. Retest Required ☐ Yes ☐ No		27. Retest Accept Date		28. FIAR Number	
29. MRB Decision ☐ USE "AS IS" ☐ REPAIR ☐ REWORK ☐ SCRAP		TEST DEVIATION (CCP 42023) RCB INSTRUCTIONS 1. TROUBLE SHOOT PER CONTINUATION SHEETS. <i>J. McLean GAEC X5967</i> <i>Blanche Starn 11/11/67</i>						QC STAMP CONT NASA	

2. VOID STEP 1.

3. Procure cable and route per OCP 42023 Pg 11, Deviation Sheet 11. Re-Run Seq. 09-034.

GAEC ENG A. Quinn 11/11/67

J. J. Sigut 11/11/67

30. DATE *1-23-68* FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)		DATE		32. System Engineer (NASA)		DATE	
33. Quality Control Rep. (Contractor)		DATE		34. Quality Control Rep. (NASA)		DATE	
35. Program Office Rep. (Office Code)		DATE		36. Quality Engineer (NASA)		DATE	

SURVEILLANCE ONLY

1. Category

11

DISCREPANCY REPORT/MATERIAL REVIEW RECORD

NASA - MANNED SPACECRAFT CENTER

PAGE ____ OF ____

2. Article Name

3. Drawing Number

4. Serial/Lot Number

5. RECORD NUMBER

6. Contractor's Name

7. Contractor's Drawing Number

8. Contractor's Serial Number

IDR

EPS

DR/MRR

OCP 63005-5

DR/MRR

12. Next Higher Assy.

7. Supplier's Name

10. Supplier's Drawing Number

11. Supplier's Serial No.

LDW 450-5239-1

13. REF. Document No.

14. Spacecraft

15. Fault

16. Funct.

17. Cause/Origin

18. System

19. Disposition

TPS-3232-OCP-63005

LTA-8

EPS

DISCREPANCY

Ref. OCP-63005-Seq. 09-035 cable assy. assy. LDW 450-5239-1 connectors P-64 & P-65 cannot be connected to J-64 & J-65 connectors.

20. Initiator's Signature

21. Stamp Number

22. Organization and Location of Initiator

23. Date

A. Caldwell

685

GAEC / MSC

11/10/67

DISPOSITION

24. MR Action Required?

☐ Yes ☐ No

25. Replacement Part Number

26. Retest Required

☐ Yes ☐ No

27. Retest Accept Date

28. FIAR Number

29. MRB Decision

☐ USE "AS IS"☐ REPAIR☐ REWORK☐ SCRAP

INSTRUCTIONS

TEST DEVIATION (OCP 42023) PCB

1. TROUBLE SHOOT ON CONTINUATION SHEETS.

J. J. Signet GAEC XS967
Houderman 11/11/67

2. VOID STEP 1

3.) Re-route Cable Assy Per TD-1

Sheet 1 and Re-Run Sequence

GAEC ENG A. Prime 11/11/67

4) Void Step 3

5) Re-Route cable per OCP 42023 Dev. Sheet

11. Connect Seq. 09-035 per Deviation Sheet 1 OCP-63005.

J. J. Signet 11/11/67

30. DATE

11/11/67

FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)

DATE

32. System Engineer (NASA)

DATE

33. Quality Control Rep. (Contractor)

DATE

34. Quality Control Rep. (NASA)

DATE

35. Program Office Rep. (Office Code)

DATE

36. Quality Engineer (NASA)

DATE

1. Category		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER			PAGE _____ OF _____	
2. Article Name <i>cable conn.</i>		3. Drawing Number <i>LDW450-5143-11</i>	4. Serial/Lot Number <i>N/A</i>		5. RECORD NUMBER <i>EPS</i>	
6. Contractor's Name <i>GAEC</i>		7. Contractor's Drawing Number	8. Contractor's Serial Number		IDR <i>63005 (16)</i>	
9. Supplier's Name		10. Supplier's Drawing Number	11. Supplier's Serial No.		DR/MRR <i>LDW450-9308</i>	
13. REF. Document No. <i>TPS-3232 ORPL3005</i>	14. Spacecraft <i>LTA-8</i>	15. Fault	16. Funct.	17. Cause/Origin	12. Next Higher Assy.	18. System
					19. Disposition	

DISCREPANCY

*DCP-63005-SEQ-09-007 CABLE LDW450-5143-11
CONNECTOR P/J-17 CANNOT FIND VEHICLE CONNECTOR IN
AREA. (NOTE FOUND CABLE WITH NO CONNECTOR OR ID. TAP)*

20. Initiator's Signature <i>A. Caldwell</i>	21. Stamp Number <i>685</i>	22. Organization and Location of Initiator <i>GAEC/MSL</i>	23. Date <i>11/10/67</i>
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DISPOSITION

24. MR Action Required? ☐ Yes ☒ No	25. Replacement Part Number <i>N/A</i>	26. Retest Required ☐ Yes ☒ No	27. Retest Accept Date	28. FIAR Number
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INSTRUCTIONS

*1. TROUBLE SHOOT PER CONTINUATION
SHEETS.*
GAEC X5967
Blair, Stan 11/11/67

QC STAMP
CONT NASA

2. VOID STEP 1

[Large scribbled-out section]

*3.) Locate connector and identify per
print. Re-run sequence-09-007.
GAEC ENG. A. Prime 11/11/67
JJ. Suput 11/11/67*

30. DATE *11/14/67* FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)	DATE	32. System Engineer (NASA)	DATE
33. Quality Control Rep. (Contractor)	DATE	34. Quality Control Rep. (NASA)	DATE
35. Program Office Rep. (Office Code)	DATE	36. Quality Engineer (NASA)	DATE

1. Category

DISCREPANCY REPORT/MATERIAL REVIEW RECORD

NASA - MANNED SPACECRAFT CENTER

PAGE 1 OF 1

2. Article Name

3. Drawing Number

4. Serial/Lot Number

5. RECORD NUMBER

6. Contractor's Name

7. Contractor's Drawing Number

8. Contractor's Serial Number

IDR

DR/MRR

9. Supplier's Name

10. Supplier's Drawing Number

11. Supplier's Serial No.

12. Next Higher Assy.

3. REF. Document No.

14. Spacecraft

15. Fault

16. Funct.

17. Cause/Origin

18. System

19. Disposition

DISCREPANCY

Ref. OCP 63005 Seg. 09-036 LDW 450-5239-3 cable assy connectors P-67 & P-68 cannot find vehicle connectors in cable routed area.

20. Initiator's Signature

21. Stamp Number

22. Organization and Location of Initiator

23. Date

DISPOSITION

24. MR Action

☐ Yes ☐ No

25. Replacement Part Number

26. Retest Required

☐ Yes ☐ No

27. Retest Accept Date

28. FIAR Number

29. MRB Decision

- ☐ USE "AS IS"
☐ REPAIR
☐ REWORK
☐ SCRAP

INSTRUCTIONS

QC STAMP

CONT NASA

2. VOID STEP 1

3. Re route Cable per OCP 42023

Deviation sheet 11. Connect Seg 09-036
 per Deviation sheet 1 OCP 63005.

GAEC. ENG. A. Pruitt 11-11-67

J.J. Sigut 11/11/67

30. DATE

FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)

DATE

32. System Engineer (NASA)

DATE

33. Quality Control Rep. (Contractor)

DATE

34. Quality Control Rep. (NASA)

DATE

35. Program Office Rep. (Office Code)

DATE

36. Quality Engineer (NASA)

DATE

1. Category		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER				PAGE ____ OF ____	
2. Article Name <i>Cable Assy</i>		3. Drawing Number <i>LDW450-5239-5</i>		4. Serial/Lot Number <i>N/A</i>		5. RECORD NUMBER <i>EPS</i>	
6. Contractor's Name <i>GAEC</i>		7. Contractor's Drawing Number		8. Contractor's Serial Number		IDR <i>OCP-63005-8</i>	
9. Supplier's Name <i>✓</i>		10. Supplier's Drawing Number		11. Supplier's Serial No.		DR/MRR <i>44-60007-2</i>	
13. REF. Document No. <i>TPS-3232-OCP63005</i>		14. Spacecraft <i>LTA-8</i>		15. Fault		16. Funct.	
				17. Cause/Origin		12. Next Higher Assy. <i>LDW450-5239-5</i>	
						18. System	
						19. Disposition	

DISCREPANCY

OCP-63005 SEQ 09-037 cable assy. P-70 connector can not find to connect to J-70 connector

20. Initiator's Signature <i>A. Caldwell</i>		21. Stamp Number <i>685</i>		22. Organization and Location of Initiator <i>GAEC/MSR</i>		23. Date <i>11/10/67</i>	
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24. MR Action Required? ☐ Yes ☐ No		25. Replacement Part Number		26. Retest Required ☐ Yes ☐ No		27. Retest Accept Date		28. FIAR Number	
29. MRB Decision ☐ USE "AS IS" ☐ REPAIR ☐ REWORK ☐ SCRAP		INSTRUCTIONS							

TEST DEVIATION (OCP 42023) PCB

1. TROUBLE SHOOT PER CONTINUATION SHEETS.

J. McPhee GAEC X5967

11/14/67

2. VOID STEP ONE.

3.) Re-Route Cable Assy per TD 1 sheet 1 and Re run Sequence.

GAEC ENT A. Prime 11/11/67

4) Void Step 3

5) Re-Route cable per OCP-42023 Dev. Sheet 11. Connect Seq. 09-037 per Deviation sheet 1 OCP-63005.

<i>J.J. Lytle 11/11/67</i>		30. DATE <i>11/11/67</i>		FINAL ACCEPTANCE	
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MRB APPROVAL SIGNATURES							
31. System Engineer (Contractor)		DATE		32. System Engineer (NASA)		DATE	
33. Quality Control Rep. (Contractor)		DATE		34. Quality Control Rep. (NASA)		DATE	
35. Program Office Rep. (Office Code)		DATE		36. Quality Engineer (NASA)		DATE	

1. Category <i>GSE</i>		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER				PAGE <i>1</i> OF <i>1</i>	
2. Article Name <i>cable Assy.</i>		3. Drawing Number <i>LDW450-5143-21</i>		4. Serial/Lot Number <i>N/A</i>		5. RECORD NUMBER <i>EPS</i>	
6. Contractor's Name <i>GAEC</i>		7. Contractor's Drawing Number <i>✓</i>		8. Contractor's Serial Number		IDR <i>0CP-63005-1</i>	
9. Supplier's Name <i>✓</i>		10. Supplier's Drawing Number		11. Supplier's Serial No.		DR/MRR <i>LDW450-9308</i>	
13. REF. Document No. <i>TPS-3282 UCP-63005</i>		14. Spacecraft <i>LTA-8</i>		15. Fault		16. Funct.	
				17. Cause/Origin		18. System	
						19. Disposition	

DISCREPANCY

Ref. OCP-63005 - Seq. 09-012 cable Assy. LDW450-5143-21 P-328 P-33 connectors cannot be found to connect to J-328 J-33 connectors.

20. Initiator's Signature <i>A. Caldwell</i>		21. Stamp Number <i>685</i>		22. Organization and Location of Initiator <i>GAEC/MSR</i>		23. Date <i>11/11/67</i>	
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DISPOSITION

24. MR Action Required? ☐ Yes ☒ No		25. Replacement Part Number <i>GSE PCB</i>		26. Retest Required ☐ Yes ☒ No		27. Retest Accept Date <i>NO</i>		28. FIAR Number	
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29. MRB Decision

- ☐ USE "AS IS"
- ☐ REPAIR
- ☐ REWORK
- ☐ SCRAP

INSTRUCTIONS

GSE PCB

1. TROUBLE SHOOT PER CONTINUATION SHEETS.

J. J. Smith GAEC, X5967

11/11/67

QC STAMP
CONT NASA

2. VOID STEP ONE.

3.) Mount Guard Heater to provide sufficient SLACK to mate connectors. Re-run Seq. 09-012.

GAEC ENG A. P. Smith 11/11/67

J. J. Smith 11/11/67

30. DATE *11/11/67* FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)		DATE		32. System Engineer (NASA)		DATE	
33. Quality Control Rep. (Contractor)		DATE		34. Quality Control Rep. (NASA)		DATE	
35. Program Office Rep. (Office Code)		DATE		36. Quality Engineer (NASA)		DATE	

1. Category		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER				PAGE _____ OF _____	
2. Article Name <i>cable assy.</i>		3. Drawing Number <i>LDW450-5143-25</i>		4. Serial/Lot Number <i>N/P</i>		5. RECORD NUMBER <i>EPS</i>	
6. Contractor's Name <i>GAEC</i>		7. Contractor's Drawing Number		8. Contractor's Serial Number		IDR <i>OCP-63005-10</i>	
9. Supplier's Name		10. Supplier's Drawing Number		11. Supplier's Serial No.		DR/MRR <i>42-13210-2</i>	
13. REF. Document No. <i>TPS 3232 OCP-63005</i>		14. Spacecraft <i>LTA-8</i>		15. Fault		16. Funct.	
				17. Cause/Origin		12. Next Higher Assy. <i>LDW450-9308</i>	
						18. System	
						19. Disposition	

DISCREPANCY

Ref. OCP-63005-09-014 cable assy. LDW450-5143-25 connector P-37 cannot be found to connect to J-37 connector

20. Initiator's Signature <i>A. Caldwell</i>	21. Stamp Number <i>685</i>	22. Organization and Location of Initiator <i>GAEC/MS</i>	23. Date <i>11/11/67</i>
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DISPOSITION

24. MR Action Required? ☐ Yes ☐ No	25. Replacement Part Number	26. Retest Required ☐ Yes ☐ No	27. Retest Accept Date	28. FIAR Number
29. MRB Decision ☐ USE "AS IS" ☐ REPAIR ☐ REWORK ☐ SCRAP	INSTRUCTIONS <i>1. TROUBLE SHOOT PER CONTINUATION SHEETS.</i> <i>2. VOID STEP ONE</i> <i>3. Mount Guard Heater to provide sufficient slack to mate connectors. Re-Run Sequence. 09-014.</i> <i>GAEC ENG C. Prime 11/11/67</i> <i>J.J. Sigart 11/11/67</i>			QC STAMP CONT NASA

30. DATE *11/11/67* FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)	DATE	32. System Engineer (NASA)	DATE
33. Quality Control Rep. (Contractor)	DATE	34. Quality Control Rep. (NASA)	DATE
35. Program Office Rep. (Office Code)	DATE	36. Quality Engineer (NASA)	DATE

1. Category <i>1</i>		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER				PAGE <i>1</i> OF <i>1</i>	
2. Article Name <i>Cable Assy</i>		3. Drawing Number <i>LDW450-5165-3</i>		4. Serial/Lot Number <i>NONE</i>		5. RECORD NUMBER <i>ETS</i>	
6. Contractor's Name <i>GAEC</i>		7. Contractor's Drawing Number		8. Contractor's Serial Number		IDR <i>ACP63005-11</i>	
9. Supplier's Name <i>GAEC</i>		10. Supplier's Drawing Number		11. Supplier's Serial No.		DR/MRR	
13. REF. Document No. <i>SPS-3132-8006300</i>		14. Spacecraft <i>LTA-8</i>		15. Fault		16. Funct.	
				17. Cause/Origin		12. Next Higher Assy. <i>LDW450-7308</i>	
						18. System <i>EPS</i>	
						19. Disposition	

DISCREPANCY

*Ref: ACP-63005-Seq. 09-033 cable Assy LDW450-5165-3
connectors P-58, P-59 & P-60 cannot be found to
connect to J-58, J-59 & J-60 connectors*

20. Initiator's Signature <i>A. Caldwell</i>	21. Stamp Number <i>685</i>	22. Organization and Location of Initiator <i>GAEC/MSC</i>	23. Date <i>11/11/67</i>
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DISPOSITION

24. MR Action Required? ☐ Yes ☐ No	25. Replacement Part Number	26. Retest Required ☐ Yes ☐ No	27. Retest Accept Date	28. FIAR Number
29. MRB Decision ☐ USE "AS IS" ☐ REPAIR ☐ REWORK ☐ SCRAP	INSTRUCTIONS			

GSE REP

1. TROUBLE SHOOT PER CONTINUATION SHEETS.

*Done GAEC 11/11/67
Resubmit 11/11/67*

2. VOID STEP ONE

*3.) Mount Guard Hertz to provide
sufficient slack to mate connector.
Re-Run Sequence 09-033.*

*GAEC ENR A. Prine 11/11/67
J.J. Supt 11/11/67*

30. DATE

11/12/67

FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)	DATE	32. System Engineer (NASA)	DATE
33. Quality Control Rep. (Contractor)	DATE	34. Quality Control Rep. (NASA)	DATE
35. Program Office Rep. (Office Code)	DATE	36. Quality Engineer (NASA)	DATE

1. Category F		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER					PAGE 1 OF 1	
2. Article Name Cable Assy.		3. Drawing Number LDW 450-5275-1		4. Serial/Lot Number N/A		5. RECORD NUMBER		
6. Contractor's Name GAEC		7. Contractor's Drawing Number SAME		8. Contractor's Serial Number SAME		IDR 63005-12		
9. Supplier's Name SAME		10. Supplier's Drawing Number SAME		11. Supplier's Serial No. SAME		DR LDW 450-9308-4		
13. REF. Document No. TP-323700P-63005		14. Spacecraft LTA-8		15. Fault		16. Funct.		17. Cause/Origin
						18. System EPS		19. Disposition

DISCREPANCY

**OCP-63005-SEQ-09-034 CABLE ASSY, LDW 450-5275-1
P/S-38 CONNECTORS CAN NOT BE CONNECTED DUE TO KEY
WAYS DO NOT MATCH.**

20. Initiator's Signature A. Caldwell	21. Stamp Number 685	22. Organization and Location of Initiator GAEC/MS	23. Date 11/14/67
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DISPOSITION

24. MR Action Required? ☐ Yes ☒ No	25. Replacement Part Number GC801AE-A37-37	26. Retest Required ☐ Yes ☒ No	27. Retest Accept Date N/A	28. FIAR Number 5436
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29. MRB Decision

- ☐ USE "AS IS"
☐ REPAIR
☐ REWORK
☐ SCRAP

INSTRUCTIONS

**1. Replace Connector in J38 with Correct PART PER
LDW 420-14040. (GC801AE-A37-37) Replace As Follows:**
**A. Leak check new connector before installation
to determine leak rate through pins. Leak
rate to be no greater than .2 microns ft³/hr
(2x10⁻⁶ cc/sec) as specified in LPC 913-43009.**
B. INSTALL NEW Connector PER LDW 420-14040.
**C. Leak check installation leak rate to be
no greater than .2 MICRON FT³/HR
(2x10⁻⁶ std cc/sec) as specified in
LPC 913-43009.**
GAEC ENG A. Quinn 11/16/67

NASA Eng. Dennis 11/16/67

NASA QA NOTE: THIS IS A CONFIGURATION CHANGE 11-12-67-24.

30. DATE

12-26-7

FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)	DATE	32. System Engineer (NASA)	DATE
33. Quality Control Rep. (Contractor)	DATE	34. Quality Control Rep. (NASA)	DATE
35. Program Office Rep. (Office Code)	DATE	36. Quality Engineer (NASA)	DATE

1. Category		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER				PAGE _____ OF _____	
2. Article Name		3. Drawing Number		4. Serial/Lot Number		5. RECORD NUMBER	
6. Contractor's Name		7. Contractor's Drawing Number		8. Contractor's Serial Number		IDR OCP 63005.13	
9. Supplier's Name		10. Supplier's Drawing Number		11. Supplier's Serial No.		DR/MRR	
13. REF. Document No.		14. Spacecraft		15. Fault		16. Funct.	
						17. Cause/Origin	
						18. System	
						19. Disposition	

DISCREPANCY

Ref Ocp-B-63005 Seg 05-010 cable LDW 410-10862-1
J95 have three open Gnds from Guard Heater.

20. Initiator's Signature <i>J. McDonnell</i>		21. Stamp Number 1318		22. Organization and Location of Initiator GAEC/MS		23. Date 19 Nov 67	
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DISPOSITION

24. MR Action Required? ☐ Yes ☐ No		25. Replacement Part Number		26. Retest Required ☐ Yes ☐ No		27. Retest Accept Date		28. FIAR Number	
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29. MRB Decision		INSTRUCTIONS						QC STAMP CONT NASA	
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☐ USE "AS IS" ☐ REPAIR ☐ REWORK ☐ SCRAP		1. FABRICATE JUMPER AS REQUIRED TO REACH FROM THE THREE GROUNDS TO THE LDW 420 114-1 CONNECTOR MOUNTING ASSY. USE #20 WIRE, APPROX. 12" LONG WITH T+B 22-18 LUGS.						741 11/19/67	
--	--	---	--	--	--	--	--	-----------------	--

		2. CONNECT THE THREE GROUNDS AND ONE END OF THE JUMPER AND COVER WITH SHRINK TUBING.						741 11/19/67	
--	--	--	--	--	--	--	--	-----------------	--

		3. TERMINATE JUMPER AT THE LDW 420-114-1.						741 11/19/67	
--	--	---	--	--	--	--	--	-----------------	--

		4. THIS FIX IS TEMPORARY AND WILL BE REMOVED SUBSEQUENT TO OCP 63003. THIS DR TO REMAIN OPEN UNTIL PERMANENT FIX DEFINED.							
		GAEC B. Johnston 11-19-67							

OC Note J 95 was replaced on DR 410-11100-13 Referred to Print Conf.		30. DATE 1-28-7		FINAL ACCEPTANCE 653			
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MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)		DATE		32. System Engineer (NASA)		DATE	
33. Quality Control Rep. (Contractor)		DATE		34. Quality Control Rep. (NASA)		DATE	
35. Program Office Rep. (Office Code)		DATE		36. Quality Engineer (NASA)		DATE	

SURVEILLANCE ONLY

1. Category ASSY ECS EPS		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER					PAGE 1 OF 1		
2. Article Name Cable Assy		3. Drawing Number LDW 410-10985		4. Serial/Lot Number N/A		5. RECORD NUMBER			
6. Contractor's Name GAEC		7. Contractor's Drawing Number SAME		8. Contractor's Serial Number N/A		IDR			
9. Supplier's Name SAME		10. Supplier's Drawing Number SAME		11. Supplier's Serial No. N/A		DR/MRR 1202-62			
3. REF. Document No. OCP-B-63005		14. Spacecraft LTA-8		15. Fault -		16. Funct. -		17. Cause/Origin H	
						18. System ECS		19. Disposition -	

DISCREPANCY

REF. SEQ. 03-002-06. GUARD HEATER ASSEMBLY 410-10698
P114 D/S ISOLATION VALVES WILL NOT REACH J114 ON AFT
EQUIPMENT BAY. (CABLE LDW 410-10985 W571).

20. Initiator's Signature J. McDonnell		21. Stamp Number 1318		22. Organization and Location of Initiator GAEC/MSU		23. Date 8 Nov 67	
--	--	---------------------------------	--	---	--	-----------------------------	--

DISPOSITION

24. MR Action Required? ☐ Yes ☐ No		25. Replacement Part Number		26. Retest Required ☐ Yes ☐ No		27. Retest Accept Date		28. FIAR Number	
---	--	-----------------------------	--	---	--	------------------------	--	-----------------	--

29. MRB Decision		INSTRUCTIONS						QC STAMP CONT NASA	
☐ USE "AS IS"		MOVE GUARD HEATER ASSY ALONG RAIL UNTIL SUFFICIENT SLACK OF CABLE IS OBTAINED TO MAKE CONNECTIONS.							
☐ PAIR									
☐ REWORK									
☐ SCRAP									

GAEC ONR. M. Cardenas 11/9/67
NASA [Signature] 11-9-67
11/9/67

30. DATE

11/13/67

FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)		DATE		32. System Engineer (NASA)		DATE	
33. Quality Control Rep. (Contractor)		DATE		34. Quality Control Rep. (NASA)		DATE	
35. Program Office Rep. (Office Code)		DATE		36. Quality Engineer (NASA)		DATE	

DISCREPANCY REPORT/MATERIAL REVIEW RECORD

NASA - MANNED SPACECRAFT CENTER

PAGE 1 OF 1

2. Article Name Cable Assy J4	3. Drawing Number LDW-450-5143-3	4. Serial/Lot Number NIA	5. RECORD NUMBER
6. Contractor's Name GAEC	7. Contractor's Drawing Number SAME	8. Contractor's Serial Number NIA	IDR
9. Supplier's Name SAME	10. Supplier's Drawing Number SAME	11. Supplier's Serial No. NIA	DR/MRR 1203-63
13. REF Document No. OCP-63005	14. Spacecraft LTA-8	15. Fault -	16. Funct. -
		17. Cause/Origin H	12. Next Higher Assy.
			18. System ECS
			19. Disposition -

DISCREPANCY

REF SEQUENCE 09-003. CABLE LDW 450-5143-3. COULD NOT MATE P4 TO J4 DUE TO A RECESSED PIN. (J4 PIN 28).

20. Initiator's Signature J. McDonnell	21. Stamp Number 1318	22. Organization and Location of Initiator GAEC/MSD	23. Date 8 Nov 67
--	---------------------------------	---	-----------------------------

DISPOSITION

24. MR Action Required? ☐ Yes ☐ No	25. Replacement Part Number	26. Retest Required ☒ Yes ☐ No	27. Retest Accept Date 11-9-67	28. FIAR Number
---	-----------------------------	--	--	-----------------

29. MRB Decision

- ☐ USE "AS IS"
- ☐ REPAIR
- ☐ RERWORK
- ☐ SCRAP

INSTRUCTIONS

1. DISASSEMBLE BACKSHELL, RESET RECESSED PIN TO PROPER CONFIGURATION.

2. RE-ASSEMBLE BACK SHELL & CONTINUITY CHECK PER LSP 900-8A

SEAC ENG. M. Cardenas 11/9/67

3. VOLT 11-9-67

NASA O. J. 11/9/67

cc note: B/P related copy used to close DR

30. DATE **11-15-67**

FINAL ACCEPTANCE

1318



MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)	DATE	32. System Engineer (NASA)	DATE
33. Quality Control Rep. (Contractor)	DATE	34. Quality Control Rep. (NASA)	DATE
35. Program Office Rep. (Office Code)	DATE	36. Quality Engineer (NASA)	DATE

1. Category

EPS

DISCREPANCY REPORT/MATERIAL REVIEW RECORD

NASA - MANNED SPACECRAFT CENTER

PAGE 1 OF

2. Article Name

cable Assy.

Contractor's Name

GAEC

9. Supplier's Name

3. Drawing Number

LDW450-5143-1

7. Contractor's Drawing Number

N/A

10. Supplier's Drawing Number

4. Serial/Lot Number

N/A

8. Contractor's Serial Number

11. Supplier's Serial No.

5. RECORD NUMBER

IDR whole DR

DR/MRR 1206-429

12. Next Higher Assy.

LDW450-9308

13. REF. Document No.

TPS-3237-OCP63005

14. Spacecraft

LTA-8

15. Fault

16. Funct.

17. Cause/Origin

18. System

19. Disposition

DISCREPANCY

REF OCP-63005 Seq. 09-002 - cable connector on
LDW 450-5143-1 on Vehicle J-1 can not be mated
Due to - Thermal couple Temp. ref. During shipping
is connected to connector

20. Initiator's Signature

A. Caldwell

21. Stamp Number

GAEC

22. Organization and Location of Initiator

GAEC / MSC

23. Date

11/9/67

DISPOSITION

24. MR Action Required?

☐ Yes ☒ No

29. MRB Decision

- ☐ USE "AS IS"
☐ REPAIR
WORK
☐ SCRAP

25. Replacement Part Number

N/A

26. Retest Required

☐ Yes ☒ No

27. Retest Accept Date

NONE

28. FIAR Number

INSTRUCTIONS

DISCONNECT AND
1. REMOVE TEMPORARY CONNECTOR AND
STORE IN WAREHOUSE.

GAEC ENG: M. Anderson 11/9/67

S. V. I. 11-9-67
NASA [Signature] 11/9/67

QC STAMP
CONT NASA

30. DATE

11/9/67 FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)

DATE

32. System Engineer (NASA)

DATE

Quality Control Rep. (Contractor)

DATE

34. Quality Control Rep. (NASA)

DATE

35. Program Office Rep. (Office Code)

DATE

36. Quality Engineer (NASA)

DATE

1. Category

DISCREPANCY REPORT/MATERIAL REVIEW RECORD

NASA - MANNED SPACECRAFT CENTER

PAGE 1 OF

2. Article Name

CABLE ASSY

3. Drawing Number

LDW450-5143-5

4. Serial/Lot Number

N/A

5. RECORD NUMBER

IDR Vehicle DR

Contractor's Name

GAEC

7. Contractor's Drawing Number

SAME

8. Contractor's Serial Number

N/A

DR/MRR 1207-430

9. Supplier's Name

N/A

10. Supplier's Drawing Number

SAME

11. Supplier's Serial No.

N/A

12. Next Higher Assy.

LDW450-9308

13. REF. Document No.

TPS-3237 OCP63005

14. Spacecraft

LTA-8

15. Fault

16. Funct.

17. Cause/Origin

18. System

19. Disposition

DISCREPANCY

REF OCP63005 SEQ 09-004 CABLE CONNECTOR ON VEHICLE
J-9 OF LDW450-5143-5 CAN NOT BE MATED DUE
TO PIN #1 IS RECESSED.

20. Initiator's Signature

R. Caldwell

21. Stamp Number

685

22. Organization and Location of Initiator

GAEC/MSL

23. Date

11/9/67

DISPOSITION

24. MR Action Required?

☐ Yes ☐ No

25. Replacement Part Number

26. Retest Required

☒ Yes ☐ No

27. Retest Accept Date

11-9-67

28. FIAR Number

29. MRB Decision

- ☐ USE "AS IS"
- ☐ REPAIR
- ☐ REWORK
- ☐ SCRAP

INSTRUCTIONS

1. DISASSEMBLE BACKSHELL, RESET RECESSED
PIN #1 TO PROPER CONFIGURATION. E14

2. RE-ASSEMBLE BACKSHELL & CONTINUITY CHECK REF. LSP 400-3A

GEAC ENG. M. Candan 11/9/67

NASA Pay Sec'y 11-9-67

QC note Validated B/P req'd. to close DR

30. DATE

11-15-67 FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)

DATE

32. System Engineer (NASA)

DATE

Quality Control Rep. (Contractor)

DATE

34. Quality Control Rep. (NASA)

DATE

35. Program Office Rep. (Office Code)

DATE

36. Quality Engineer (NASA)

DATE

DISCREPANCY REPORT/MATERIAL REVIEW RECORD

NASA - MANNED SPACECRAFT CENTER

PAGE 1 OF 1

2. Article Name <i>EPS U</i> <i>cable assy.</i>		3. Drawing Number <i>LDW450-51439</i>	4. Serial/Lot Number <i>N/A</i>	5. RECORD NUMBER IDR <i>Vehicle DR</i> DR/MRR <i>1208-431</i>	
6. Contractor's Name <i>GAEC</i>		7. Contractor's Drawing Number <i>N/A</i>	8. Contractor's Serial Number	12. Next Higher Assy. <i>LDW450-9308</i>	
9. Supplier's Name <i>SAME</i>		10. Supplier's Drawing Number <i>N/A</i>	11. Supplier's Serial No.	18. System	19. Disposition
13. REF. Document No. <i>TPS-32374 OCP63005</i>	14. Spacecraft <i>LTA-8</i>	15. Fault	16. Funct.	17. Cause/Origin	

DISCREPANCY

REF. OCP 63005 SEQ-09-006 - cable connector on
Vehicle J-14 of LDW450-5143-9 can not be mated
Due to Pin #23 Tip chipped off & Pin #35 Bent.

20. Initiator's Signature <i>A. Caldwell</i>	21. Stamp Number <i>685</i>	22. Organization and Location of Initiator <i>GAEC/MS</i>	23. Date <i>11/9/67</i>
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DISPOSITION

24. MR Action Required? ☐ Yes ☐ No	25. Replacement Part Number	26. Retest Required ☒ Yes ☐ No	27. Retest Accept Date <i>11-9-67</i>	28. FIAR Number
---	-----------------------------	--	--	-----------------

29. MRB Decision ☐ USE "AS IS" ☐ REPAIR ☐ REWORK ☐ SCRAP	INSTRUCTIONS <i>1. DISASSEMBLE BACK SHELL REPLACE PINS #23 & #25 WITH NEW ONES. E14</i>			QC STAMP CONT NASA <i>149</i> <i>11/11/67</i>
--	--	--	--	--

*2. REASSEMBLE CONNECTOR. E14**GAEC M. Cardenas 11-9-67**S. D. T. 11-9-67**NASA Ray Dewey 11/7/67**3. PERFORM CONTINUITY CHECK REF. LSP400-8A. E14**NASA Ray Dewey 11/9/67**QC Note: UNvalidated B/P Req'd To Close*

30. DATE

11-15-67

FINAL ACCEPTANCE

1318

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)	DATE	32. System Engineer (NASA)	DATE
33. Quality Control Rep. (Contractor)	DATE	34. Quality Control Rep. (NASA)	DATE
35. Program Office Rep. (Office Code)	DATE	36. Quality Engineer (NASA)	DATE

1. Category EPS U		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER				PAGE _____ OF _____	
2. Article Name cable Assy.		3. Drawing Number LDW450-5143-9		4. Serial/Lot Number N/A		5. RECORD NUMBER	
Contractor's Name GAEC		7. Contractor's Drawing Number		8. Contractor's Serial Number		IDR	
9. Supplier's Name Same		10. Supplier's Drawing Number		11. Supplier's Serial No.		DR/MRR 1209-432	
13. REF. Document No. TPS-323740CP6305		14. Spacecraft LTA-8		15. Fault		16. Funct.	
				17. Cause/Origin		12. Next Higher Assy. LDW450-9308	
						18. System	
						19. Disposition	

DISCREPANCY

Ref. OCP-63005 seq. - 09-006 cable connector on vehicle J-15 of LDW450-5143-9 can not be mated due to -

1 J-15 PIN #16 is recessed

2 J-15 Pin #31 is recessed.

20. Initiator's Signature A. Caldwell	21. Stamp Number 685	22. Organization and Location of Initiator GAEC/MSD	23. Date 11/9/67
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DISPOSITION

24. MR Action Required? ☐ Yes ☐ No	25. Replacement Part Number	26. Retest Required ☒ Yes ☐ No	27. Retest Accept Date 11-9-67	28. FIAR Number
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29. MRB Decision

INSTRUCTIONS

- ☐ USE "AS IS"
- ☐ REPAIR
- ☐ REWORK
- ☐ SCRAP

1. DISASSEMBLE CONNECTOR, RESET RECESSED PINS #16, & #31 TO PROPER CONFIGURATION.

2 REASSEMBLE CONNECTOR & CONTINUITY CHECK PER LSP400-3A

GAEC ENG. M. Madhavan 11/9/67

NASA S. VOLT 11-9-67

NASA [Signature] 11/9/67

QC STAMP
CONT NASA

149
11/9/67

QC note VALIDATED B/P req'd for close DR.

30. DATE **11-5-67** FINAL ACCEPTANCE **1318**

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)	DATE	32. System Engineer (NASA)	DATE
Quality Control Rep. (Contractor)	DATE	34. Quality Control Rep. (NASA)	DATE
35. Program Office Rep. (Office Code)	DATE	36. Quality Engineer (NASA)	DATE

1. Category

EPS

DISCREPANCY REPORT/MATERIAL REVIEW RECORD

NASA - MANNED SPACECRAFT CENTER

PAGE _____ OF _____

2. Article Name

cable Assy

3. Drawing Number

LDW450-5143-7

4. Serial/Lot Number

N/A

5. RECORD NUMBER

IDR

Vehicle PR

DR/MRR

1212-433

9. Supplier's Name

BAEC

10. Supplier's Drawing Number

11. Supplier's Serial No.

12. Next Higher Assy.

LDW450-9308

13. REF. Document No.

TPS-3237OCP63005

14. Spacecraft

LTA-8

15. Fault

16. Funct.

17. Cause/Origin

18. System

19. Disposition

DISCREPANCY

Ref OCP-63005 Seq. 09-005 cable connector on Vehicle
 5-11 LDW450-5143-7 can not be mated.

① Pin #26 is Recessed

② at Pin #34 insert cracked to edge of connector

20. Initiator's Signature

A. Caldwell

21. Stamp Number

685

22. Organization and Location of Initiator

BAEC/MSC

23. Date

11/9/67

DISPOSITION

24. MR Action Required?

☐ Yes ☐ No

25. Replacement Part Number

26. Retest Required

☐ Yes ☐ No

27. Retest Accept Date

28. FIAR Number

29. MRB Decision

INSTRUCTIONS

QC STAMP

CONT NASA

☐ USE "AS IS"☐ REPAIR

EWORK

☐ SCRAP

1. DISASSEMBLE CONNECTOR AND REPLACE
 INSERT WITH LIKE ITEM.

2. RESET PIN #26 INTO NEW INSERT

AND MEASURE

3. PERFORM CONTINUITY CHECK. REF LSP400-8A

GARC. M. Calderon 11-9-67

E. L. B. 11-9-67

J. J. Sigant 11/9/67

30. DATE

FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)

DATE

32. System Engineer (NASA)

DATE

33. Quality Control Rep. (Contractor)

DATE

34. Quality Control Rep. (NASA)

DATE

35. Program Office Rep. (Office Code)

DATE

36. Quality Engineer (NASA)

DATE

1. Category EPS		DISCREPANCY REPORT/MATERIAL REVIEW RECORD NASA - MANNED SPACECRAFT CENTER				PAGE _____ OF _____	
2. Article Name cable assy		3. Drawing Number LDW450-5143-15		4. Serial/Lot Number N/A		5. RECORD NUMBER	
6. Initiator's Name GAEC		7. Contractor's Drawing Number		8. Contractor's Serial Number		IDR GAECSE	
9. Supplier's Name		10. Supplier's Drawing Number		11. Supplier's Serial No.		DR/MRR 1213-434	
13. REF. Document No. TFS-323780CP63005		14. Spacecraft LTA-8		15. Fault		16. Funct.	
				17. Cause/Origin		12. Next Higher Assy. LDW450-9308	
						18. System	
						19. Disposition	

DISCREPANCY

Ref. OCP-63005 Seq. -09-009- cable LDW450-5143-15
connector JFP 22 can not be mated due to Guard
Heater assy. is not ~~located~~ located on LWS to OCP-
~~22003~~ 42023

20. Initiator's Signature A. Caldwell		21. Stamp Number 685		22. Organization and Location of Initiator GAEC/MS		23. Date 11/9/67	
---	--	--------------------------------	--	--	--	----------------------------	--

DISPOSITION

24. MR Action Required? ☐ Yes ☐ No		25. Replacement Part Number		26. Retest Required ☐ Yes ☐ No		27. Retest Accept Date		28. FIAR Number	
---	--	-----------------------------	--	---	--	------------------------	--	-----------------	--

29. MRB Decision		INSTRUCTIONS						QC STAMP	
------------------	--	--------------	--	--	--	--	--	----------	--

- ☐ USE "AS IS"
- ☐ REPAIR
- ☐ WORK
- ☐ SCRAP

1. GUARD HEATER WILL BE RELOCATED
ON LWS PER RETEST ~~22003~~
LSK-420-1103. (REF DR 1148-127)

GAEC M. Caldwell 11-9-67
S. V. 11-9-67

2. AFTER DR 1148-127 IS WORKED perform OCP 63005
Seq 09-009.

J. Input

30. DATE

FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)		DATE		32. System Engineer (NASA)		DATE	
33. Quality Control Rep. (Contractor)		DATE		34. Quality Control Rep. (NASA)		DATE	
35. Program Office Rep. (Office Code)		DATE		36. Quality Engineer (NASA)		DATE	

Category

DISCREPANCY REPORT/MATERIAL REVIEW RECORD

NASA - MANNED SPACECRAFT CENTER

PAGE 1 OF 2

1. Article Name <i>125</i>		3. Drawing Number <i>100-450-7308</i>	4. Serial/Lot Number <i>100</i>	5. RECORD NUMBER IDR
Contractor's Name <i>GAEC</i>		7. Contractor's Drawing Number <i>100</i>	8. Contractor's Serial Number <i>100</i>	DR/MRR <i>100-450-7308-100</i>
9. Supplier's Name <i>GAEC</i>		10. Supplier's Drawing Number <i>100-450-7308</i>	11. Supplier's Serial No. <i>N/A</i>	12. Next Higher Assy. <i>LDW 410-11100</i>
13. REF. Document No. <i>OCP 63005</i>	14. Spacecraft	15. Fault	16. Funct.	17. Cause/Origin
				18. System
				19. Disposition

DISCREPANCY

THE Connectors Listed on THE Continuation SHEETS HAVE THE 'SUNBANK' BACKSHELL REVERSED

20. Initiator's Signature <i>[Signature]</i>	21. Stamp Number <i>149</i>	22. Organization and Location of Initiator <i>GAEC/MSC</i>	23. Date <i>11/11/67</i>
---	--------------------------------	---	-----------------------------

DISPOSITION

24. MR Action Required? ☐ Yes ☐ No	25. Replacement Part Number	26. Retest Required ☐ Yes ☐ No	27. Retest Accept Date	28. FIAR Number
29. MRB Decision ☐ USE "AS IS" ☐ REPAIR ☐ REWORK ☐ SCRAP	INSTRUCTIONS			QC STAMP CONT NASA
30. DATE				FINAL ACCEPTANCE

MRB APPROVAL SIGNATURES

31. System Engineer (Contractor)	DATE	32. System Engineer (NASA)	DATE
Quality Control Rep. (Contractor)	DATE	34. Quality Control Rep. (NASA)	DATE
35. Program Office Rep. (Office Code)	DATE	36. Quality Engineer (NASA)	DATE

CATEGORY

DISCREPANCY REPORT/MATERIAL REVIEW RECORD
CONTINUATION SHEET
NASA MANNED SPACECRAFT CENTER

2.

PAGE 2 OF 2

3. RECORD NUMBER

IDR

DR/MRR
LDW 450-938-1.3

CONNECTION	DRAWING NUMBER	LOCATION	QC STAMP	
			CONT.	NASA
J4	LDW 450 - 5143 - 30R4	ASC - Y		
J5	" - 5143 - 30R4	ASC - Y		
J8	" - 5143 - 50R6	ASC - Y		
J13	" - 5143 - 90R10	ASC - Y		
J14	" - 5143 - 10	ASC - Y		
J15	" - 5143 - 90R10	ASC - Y		
J40	" - 5143 - 27	DESC - PENAL #4		
J44	" - 5143 -	ASC - Y		
J45	" - 5143 - 290R30	ASC - Y		
J64	" - 5145 - 201	ASC - Y		
J66	" - 5239 - 1	ASC		
J70	" - 5239 - 5	DESC - PENAL #4		
J71	" - 5239 - 5	DESC - PENAL #4		
J72	" - 5239 - 5	DESC - PENAL #4		
J73	" - 5239 - 7	DESC - PENAL #4		
J74	" - 5239 - 7	DESC - PENAL #4		
J75	" - 5239 - 7	DESC - PENAL #4		
P195	" - 5163 - 163	ASC - PENAL #7		
P196	" - 5269 - 1			
P197	" - 5163 - 167			
P199	" - 5163 - 171	ASC		
J46	" - 5143	ASC + Y		
J50	" - 5143	ASC + Y		
J67	" - 5239	ASC + Y		
J11	" - 5143	ASC + Y		
J1	" - 5143	ASC + Y		
		DATE:	FINAL ACCEPTANCE	

OCP-63005
SEQ, 03, 05, 08, 09 ONLY

Page 1 of 2

OPEN PAPER WORK REVIEW	TPS	CONSTRAINT	NO CONSTRAINT
TPS-696 GUARD HEATER INST'L.		98 X SEQ-5	X acc
TPS-3100 - REINST'L. CH. "B" CABLES		X	X acc
TPS-3107 INSP. PINS TO BE REWRITTEN & CLEARED		X	X acc
TPS 3158 INCORP. EO'S TO GUARD HEATERS.			X SEQ 12-
TPS-3168 INCORP. OF EO'S CABLES			X SEQ ?
TPS-3189 INCORP. OF EO'S ON CABLES.			X
TPS-3191 INCORP. OF EO'S ON CABLES			X
TPS-3195 INCORP. EO'S OF LANDING GEG SPLICER			X
TPS-3208 INCORP. EO'S ON CABIN LIGHTING			X
TPS-3220 - VERIFY INCORP. EO'S ON CABLES			X
TPS-3223 - INCORP. OF EO'S ON HEATER CABLES			X
TPS-3227 DISCONNECT CABLES TO CORRECT ROUTING			X
IDR#5 CABLE I.D. BAND WRONG			X
IDR-17 410-10914 CABLE RECESSED PINS			X
IDR#24 938-10639 I.D. BANDS MISSING			X
DR-908- P-62 PLUG RUBBER INSERT DAMAGED		98 X SEQ-9	X acc
DR-870 NO SUPPORT ON CABLES CH. "B"			X
DR-919-332 TAPED CONNECTOR J-230			X
DR-962-351 CABLE 410-10953 CONNECTOR MISSING			X

GAEC ENG. R.A. Brown DATE 11/3/67 NASA ENG. J. Sypit DATE 11/3/67

GAEC INSP. C. Caldwell DATE 11/3/67 NASA QA M. Morris DATE 3 Nov 67

PRE-TEST MEETING
ALL CONSTRAINTS HAVE BEEN CLEARED

DATE _____

~~ALL PRE-TEST SEQ-09 WAS DROPPED FROM BEING WORKED~~
~~DR-908 - SEQ-9 CONSTRAINT~~

GAEC ENG. L. Brown DATE 11/8/67 NASA ENG. Ray Dwyer DATE 11/8/67

GAEC INSP. C. Caldwell DATE 11/8/67 NASA QA Hooper DATE 11-8-67

REF TPS 3237

ONLY
PART OF OCP 63005
SEQ 3, 8, 9

TPS-3100 CABLE NOT MATED 42023

SEQ 3 - 410-10952-1 CABLE

SEQ-8 450-5225 CABLE DEV. OUT

SEQ-8 410-10866- CABLE

SEQ-9 450-5239- CABLE REF DR-1171-427 ALL PLUGS NOT CONNECTED

SEQ-9 450-5165-1

450-5165-3

450-5275-1

450-5239-3

CABLE ROUTED
IN CH. B

SEQ-09 REINSTALLED
AS PART OF
TPS 3237

OCP-63005 Seq. 03,05,08,09 ONLY

Page 2 of 2

OPEN PAPER WORK REVIEW	TPS	CONSTRAINT	NO CONSTRAINT
DR-964-352	PLUS HEATER BROKEN		X
DR-996-366	CABLE 410-1113- WRONG FERRAL		X
DR-1082-399	B/P CONT. NOT TO INSTL. ON CABLES.		X
DR-1102-405	DISPERSION COATING PEELING		X
DR-1114-410	GROUND CABLE SHORT	X SMD	X DEC
DR-1134-425	TRANSDUCER POTTING		X
DR-42023	TPS-5165	X See NOT PEI	X DEC
DR-1062-450-5147-47	J-206 PUSHER IN ON VEHICLE SIDE		X
TPS-6114	THERMO CABLE	ATTACH LIST X 602-9	X OLC
TPS-6091	INSTL. CABLES UMBILICAL	X DEC 602-9	EO'S REQUIRED X DEC
TPS-6136	CABLE ROUTING (REF 6091)	X	X DEC
	ED-A7 INCORP 5225 450-6227	X See 8-002	TO BE DELETED DEC
GENERAL BLANKET INSTL. AROUND DR AT			
CONNECTORS INTERFACE GSE WINDOW		X See 3-8	X DEC
DR-1102-405 DISPERSION COATING PEELING			

GAEC ENG. R. A. Bruno DATE 11/3/67 NASA ENG. J. Input DATE 11/3/67

GAEC INSP. C. Caldwell DATE 10/3/67 NASA QA M. McLenner DATE 3 Nov. 67

PRE-TEST MEETING
ALL CONSTRAINTS HAVE BEEN CLEARED

DATE _____

GAEC ENG. _____ DATE _____ NASA ENG. _____ DATE _____

GAEC INSP. _____ DATE _____ NASA QA _____ DATE _____

GRUMMAN AIRCRAFT ENGINEERING CORPORATION

	SEC	CAN BE MATED	CAN NOT BE MATED								
	1	—	—								
	2	1, 2, 3									
	3	4, 5, 6									
	4	7, 9	8								
	5	10, 11, 12	13								
	6	14, 15	16, 18								
	7	17	19, 20, 21								
	8		23, 24								
	9	22	27								
	10	25, 26	28, 29, 30								
	11		31								
	12	32, 33	36								
	13	34, 35	38, 39								
	14	37	40, 41, 42								
	15		45								
	16	43, 44									
	17	46, 47, 48									
	18	49, 50, (51)									
	19		52, 53, 54								
	20	NONE	(NO MATING VEHICLE CONNECTORS)								
	21	16, 17, 18									
	22	19, 20, 21									
	23		22, 23, 24								
	24	25, 26, (27)									
	25	30, 31, 32									
	26	13, 14, 15									
	27	33, 34									
	28		801								
	29	802									
	30		803								
	31	804, 805									
	32	55, 56, 57									
	33	58, 59, 60									
	34	38									
	35	64, 65	68								
	36	67, 68	69								
	37		71, 72								
	38		73, 74, 75								

TPS-2140 SEQ #1,2,4

OPEN PAPER WORK REVIEW

TPS 63005

CONSTRAINT

NO CONSTRAINT

~~TPS-5200 HATCH ADAPTER~~

~~X COMPLETE~~

RIGHT KIT INSTALL, LSC 410-41002-

DR-998-41 CABIN LEAK CHECK (FA-60-14)

X
X

DEV. SHEETS REQUIRED ON COMPLETED

~~TPS-5200~~ ITEMS AT EARLIER TPS & OCP'S

X

TPS-2070 INCORP. MOD KIT TO 430-64600

X
To SEQ #4

OCP 63005 OPEN ITEMS REVIEW SEQ. 1, 2, 4 ONLY

GAEC ENG. D. Maynard DATE 10/21/67 NASA ENG. A. Ward DATE 10/31/67

GAEC INSP. A. Caldwell DATE 10/31/67 NASA QA A. Bankley DATE 10/31/67

PRE-TEST MEETING

DATE 10/31/67

ALL CONSTRAINTS HAVE BEEN CLEARED

GAEC ENG. D. Maynard DATE 10/31/67 NASA ENG. A. Ward DATE 10/31/67

GAEC INSP. A. Caldwell DATE 10/31/67 NASA QA A. Bankley DATE 10/31/67

OPEN PAPER WORK REVIEW

TPS

OCP 63005

SEP 10-11-12-



CONSTRAINT

NO CONSTRAINT

GAEC ENG J. McLean DATE 11-22-67 NASA ENG J. McLean DATE 11/22/67

GAEC INSP J. McLean DATE 11-22-67 NASA QA J. McLean DATE 11-22-67

PRE-TEST MEETING

DATE 11-22-67

ALL CONSTRAINTS HAVE BEEN CLEARED

GAEC ENG J. McLean DATE 11-22-67 NASA ENG J. McLean DATE 11/22/67

GAEC INSP J. McLean DATE 11-22-67 NASA QA J. McLean DATE 11-22-67

OPEN ITEM REVIEW SHEET

Date 11/30/67

Prepared by A. Case

Part No.

Part Name

Page of

SET. 13 ONLY

GAEC ENGR. John Ferrara	DATE 11/30/67	NASA ENGR. W. E. Ward	DATE 11/30/67
GAEC Q.C. R. B. Base	DATE 11/30/67	NASA Q.A. J. Hopke	DATE 11/30/67

GAEC ENGR. John J. Ferrara	DATE 11/30/67	NASA ENGR. W. E. Ward	DATE 11/30/67
GAEC Q.C. R. Rose	DATE 11/30/67	NASA Q.A. G. Gopher	DATE 11/30/67

Part No.

Part Name

Page of

OPEN ITEM REVIEW			
GAEC ENGR. <i>H.C. Conway</i>	DATE <i>12-14-67</i>	NASA ENGR. <i>H. Killingsworth</i>	DATE <i>12-14-67</i>
GAEC Q.C. <i>P. C. C. C.</i>	DATE <i>12/14/67</i>	NASA Q.A. <i>W. W. W. W.</i>	DATE <i>12-14-67</i>
PRETEST MEETING			
GAEC ENGR. <i>H.C. Conway</i>	DATE <i>12-14-67</i>	NASA ENGR. <i>H. Killingsworth</i>	DATE <i>12-14-67</i>
GAEC Q.C. <i>P. C. C. C.</i>	DATE <i>12/14/67</i>	NASA Q.A. <i>W. W. W. W.</i>	DATE <i>12-14-67</i>

GAEC PRE-OPERATION
REVIEW MEETING

OPEN PAPERWORK REVIEW ☐PRE-TEST MEETING ☒DATE October 31, 1967OCP No. 63005 Seq 1, 2 & 4

DTP No. _____

Instructions

1. List all open paperwork (TPS, EO, LFM, DR) effecting the operation in review.
2. Items listed as constraints must reflect the subsystem it constrains (See subsystem designation).
3. Constraints must reflect specific sequences and/or operations and a detailed explanation describing the constraint must be indicated in space provided.

GAEC Engineer	<u>DW Maynard</u>	Date	<u>10/31/67</u>	Time	<u>1430</u>
NASA Engineer	<u>U E. Ward</u>	Date	<u>10/31/67</u>	Time	<u>1430</u>
GAEC Q.C.	<u>A. Caldwell</u>	Date	<u>10/31/67</u>	Time	<u>1430</u>
NASA Q.C.	<u>A. Brakley</u>	Date	<u>10/31/67</u>	Time	<u>1430</u>
GAEC Safety	_____	Date	_____	Time	_____

NOTE: If there is a change in status of the signed off constraint list which has a bearing on starting work, a new cover sheet must be completed and signed off indicating new status.

PRE-TEST MEETING ONLY - GAEC INFORMATION

1. All constraints have been cleared or identified as a "no constraint" to proceed with testing.
2. GAEC Test Checklists (CH-92-136 and 136A) have been reviewed and clear of restraints.

J. E. [Signature] 10-31-67
GAEC Test Conductor

149

DATE 10/31/67
OCP No. 63005 Sec 1
DTP No. 2840

(1) Mechanical (2) Fluid/Mechanical (3) Instrumentation
(4) Electronic (5) Facilities (6) Environmental Control System

Req No.	DR No.	Other	Description	OCP Seq. Constraints	Constrains Subsystem	AC Constraints
1,2070			MOD KIT INSULATION	4	ECS	
2.	1138-54		Protective floor installation.			✓

Constraint Explanation:

1. MOD KIT TO BE installed during OCP 42023

GAEC TEST CHECKLIST

DATE & TIME REQUIRED: 4/2/81 1500

SPAN TIME: 78 hours

1. Operation Title OCP-B-63005

2. Test Checklist No. ECS-4

TPS No. 2140

3. Type of Operation: T/S (OCP) 63005 DTP Other:

4. Location: TPA (CH.B.) WHSE. R150 Other:

5. Communications: Headsets N/A Transceivers N/A

6. Calibration Requirements: N/A

7. Gases & Liquids: N/A LN₂ GN₂ He GO₂ W/G(ECS) FREON TF Other:

8. Sample Requirements: N/A Ref TPS 2123

9. Procedures/Other Documents: MSC SPEC C-5A

10. Personnel Required: (GAEC) BRN NARC Other: NASA

(a) Test Operations 1

(b) Mech. Tech. 2

(c) Elect. Tech.

(d) Tech. Pubs. 1

(e) Q.C. 1

(f) Safety

(g) Other

11. Special Considerations:

(a) Special equip/material: N/A

(b) Support arrangements completed: N/A YES _____ NO _____ BY WHOM: _____

(c) Equipment staged by: Mech Shop COMPLETED SIGNATURE _____

(d) Open Item Review Scheduled for: 10/31 COMPLETED SIGNATURE Don Maynard 10/31

(e) Pre-Test Scheduled for: 10/31 COMPLETED SIGNATURE Don Maynard 10/31

(f) ACE Scheduled for: N/A

(g) IESD-DFI Scheduled for: N/A

12. Attachment Pages: Don Maynard
Group Leader, Signature

Test Conductor, Signature

13. Other Information:

ATTACHMENT NO. 1

TABULATION FORM

OPEN ITEM REVIEW SHEET

Date _____ Prepared by _____

Part Name

Page of

[illegible]

GAEC	DATE	NASA	DATE
ENGR.		ENGR.	
GAEC	DATE	NASA	DATE
Q.C.		Q.A.	

GAEC	DATE	NASA	DATE
ENGR.		ENGR.	
GAEC	DATE	NASA	DATE
Q.C.		Q.A.	

GRUMMAN AIRCRAFT ENGINEERING CORPORATION

OPEN ITEM REVIEW SHEET

Test No. ACP B-63005 Date _____ Prepared by _____Part No. LDW 450-9308 Part Name _____ Page _____ of _____

ITEM NO.	DOCUMENT NAME AND NO.	BRIEF DESCRIPTION OF OPEN ITEM	OCP SEQUENCE	CONSTRAINT		CLOSED	
				YES	NO	GAEC	NASA
1	INS TYPE A 6089	E.O. VERIFICATION / INCORPORATION				932 9-16	
2	INS TYPE A 6160	INCCRP E.O. A-1				4-16	

OPEN ITEM REVIEW

GAEC	DATE	NASA	DATE
ENGR.		ENGR.	
GAEC	DATE	NASA	DATE
Q.C.		Q.A.	

PRETEST MEETING

GAEC	DATE	NASA	DATE
ENGR.		ENGR.	
GAEC	DATE	NASA	DATE
Q.C.		Q.A.	

GRUMMAN AIRCRAFT ENGINEERING CORPORATION
OPEN ITEM REVIEW SHEET

Test No. Ref 6-63005 Date _____ Prepared by _____
Part No. _____ Part Name _____ Page _____ of _____

[illegible]

OPEN ITEM REVIEW

GAEC	DATE	NASA	DATE
ENGR.		ENGR.	
GAEC	DATE	NASA	DATE
Q.C.		Q.A.	

PRETEST MEETING

GAEC	DATE	NASA	DATE
ENGR.		ENGR.	
GAEC	DATE	NASA	DATE
Q.C.		Q.A.	