APPROVAL

SKYLAB 2

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM

APPROVED BY:

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Director, Information Systems
LIST OF EFFECTIVE PAGES

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### FACILITIES AND ENVIRONMENTAL MEASUREMENTS
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SKYLAB-2

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM

INTRODUCTION

This document presents a list of the facilities and environmental measurements to be monitored in support of the SKYLAB-2 vehicle. Included are the measurement identification number, description, transducer operating range, recorder vehicle, type and drawings illustrating measurement location. The following LAUNCH COMPLEX 39 facilities will be used on this vehicle:

PAD B
LAUNCH COMPLEX 39 - PAD B

LUT 1
LAUNCHER UMBILICAL TOWER NUMBER 1

Measurements for the mobile service structure, crawler transporter and mobile recharger are listed in the LC-39 facilities and environmental support equipment measurements program GP-842.

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This document was compiled and distributed by the data systems division, IN-DAT

Technical contact - Bob Cessac, IN-DAT-52, 867-4372

Date 18 Oct 72
### FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM FORMAT

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<td>DISPLAY REQ. NO.</td>
<td>CALL-UP NUMBER FOR REAL TIME DISPLAY OF DIGITIZED MEASUREMENTS AT THE CIF DATA DISPLAY ROOM AND THE LAUNCH CONTROL CENTER</td>
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<td>MEASUREMENT DESCRIPTION</td>
<td>BRIEF SUMMARY OF MEASUREMENT TYPE AND LOCATION</td>
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<td>RANGE</td>
<td>TRANSODUCER OPERATING RANGE IN ENGINEERING UNITS</td>
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<td>TYPE OF EQUIPMENT ON WHICH MEASUREMENT IS RECORDED</td>
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**DATE** 18 OCT 72
MEASUREMENT NUMBER CONFIGURATION

Format 32 C 001

- - -
- - -
- - -
- - -
SEQUENCE NUMBER
- - -

LETTER SIGNIFYING LOCATION OF MEASUREMENT
- - -

NUMBER SIGNIFYING TYPE OF MEASUREMENT

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<td>B</td>
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<td>PRESSURE (351/750 PSI)</td>
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<td>UMBILICAL TOWER</td>
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<td>5</td>
<td>PRESSURE (751/1000 PSI)</td>
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<td>DEFLECTOR AREA</td>
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<td>HP GAS STORAGE AREA</td>
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<td>F</td>
<td>RP-1 AREA</td>
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<td>56</td>
<td>FIRE CONFIDENCE CIRCUIT DETECTOR</td>
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DATE 18 OCT 72
FACILITIES AND ENVIRONMENTAL DIGITAL ACQUISITION SYSTEM CHANNEL DESCRIPTION

PCM FORMAT

A  P3  E1  156  05

BIT = 01-10
00 = ALL TEN BITS USED

DASH (FOR SEPARATION ONLY)

WORD = 001-200

DASH (FOR SEPARATION ONLY)

MULTIPLEXER TYPE AND NUMBER
A0 = ANALOG
A1 = ANALOG MULTIPLEXER (A1-A20)
E0 = EVENT
E1 = EVENT SUBMULTIPLEXER (E1-E5)

MODULATION TYPE AND LINK
P1 = PCM - LINK 1
P2 = PCM - LINK 2
P3 = PCM - LINK 3
F1 = FSK - LINK 1
F2 = FSK - LINK 2
F3 = FSK - LINK 3

COMPLEX = COMPLEX AND AREA FROM WHICH MEASUREMENT
IS BEING TRANSMITTED
A = LC39 LUT
U = LC39 PTCR
C = LC39 MSS
D = LC39 LH2
E = LC39 GH2
F = KSC FLD MILL

DATE   18 OCT 72

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<td>Btu/sf/s</td>
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<td>Cdn</td>
<td>Center</td>
<td>Cad</td>
<td>Cabinet</td>
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<td>Ch</td>
<td>Channel</td>
<td>Cl</td>
<td>Center Line</td>
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<td>Console Meter</td>
<td>Cm/Ja</td>
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<td>Gallons Per Minute</td>
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| 3C040     |         | PRESS, 120 FT LOX VALVE COMPLEX      | 0/150  | DAS + SC |           |         | * | * | * |
|           |         | INLET                                |        |          |           |         | * | * | * |
| 3C041     |         | PRESS, 120 FT LOX VALVE COMPLEX      | 0/150  | DAS + SC |           |         | * | * | * |
|           |         | OUTLET                               |        |          |           |         | * | * | * |
| 3F001     |         | PRESS RP-1 TRANSFER PUMP 4003        | 0/300  | DAS + SC | PC1-2415  |         | * | * | * |
|           |         | DISCHARGE NEAR VALVE A4055           |        |          |           |         | * | * | * |
| 3F002     |         | PRESS RP-1 TRANSFER LINE DOWN-       | 0/300  | DAS + SC | PC1-2415  |         | * | * | * |
|           |         | STREAM OF TEE CONN FOR DISC A4071    |        |          |           |         | * | * | * |
| 3G001     |         | PRESS 1000 GPM LOX PUMP DISCH.       | 0/400  | DAS + SC | PC1-2402  |         | * | * | * |
|           |         | IN COMMON LINE AT LOX FACILITY       |        |          |           |         | * | * | * |
| 3H001     |         | PRESS LH2 STORAGE TANK ULLAGE        | 0/120  | DAS + SC | PC1-2409  |         | * | * | * |
|           |         | LH2 STORAGE FAC NEAR VALVE A3467     |        |          |           |         | * | * | * |
| 3H002     |         | PRESS LH2 STORAGE TANK VENT AT       | 0/100  | DAS + SC | PC1-2409  |         | * | * | * |
|           |         | LH2 FACILITY AT POND SIDE OF         |        |          |           |         | * | * | * |
|           |         | VALVE A3440                           |        |          |           |         | * | * | * |
| 3H003     |         | PRESS LH2 FACILITY TRANSFER          | 0/120  | DAS + SC | PC1-2409  |         | * | * | * |
|           |         | LINE, D/S OF VALVE A3481             |        |          |           |         | * | * | * |
| 3H004     |         | PRESS LH2 STORAGE TANK NEAR          | 0/75   | DAS + SC | PC1-2409  |         | * | * | * |
|           |         | INSTR CONSOLE LH2 FACILITY           |        |          |           |         | * | * | * |
| 3K001     |         | PRESS LH2 FACILITY HEAT EXCHAN.      | 0/60   | DAS + SC | PC1-2410  |         | * | * | * |
|           |         | VENT NEAR BURN POND                  |        |          |           |         | * | * | * |
| 3K002     |         | PRESS FACILITY HEAT EXCHANGER        | 0/60   | DAS + SC | PC1-2410  |         | * | * | * |
|           |         | VENT LINE AT EQUILIZER TUBE AT BURN POND |        |          |           |         | * | * | * |</p>
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