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LIFE SCIENCES DIVISION

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LABORATORY SUPPORT Final Report, 1 May
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FINAL REPORT
Period 1 May 1972 through 30 June 1974
Contract NAS 9-12926
SKYLAB FOOD SYSTEM LABORATORY SUPPORT

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FINAL REPORT
Period 1 May 1972 through 30 June 1974
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SKYLAB FOOD SYSTEM LABORATORY SUPPORT

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1.0 Introduction

This final report is submitted in compliance with Contractual Agreement NAS 9-12926, "Skylab Food System Laboratory Support", and covers the period 1 May 1972 through 30 June 1974. Monthly Progress Reports have been submitted during this period. This Final Report includes a summary of the support activities performed and reported in the Monthly Progress Reports. All activities under this contract have been completed.

2.0 Work Accomplished

2.1 Qualification Test Support

The Qualification Test Program was conducted on the Skylab Food System to verify Crew Compartment Fit and Function (CCFF) and to certify compliance of the food system with contract number NAS 9-11164, "Skylab Food System."

The Test Program included humidity, shock, vibration, altitude, temperature, pressure, atmospheric compatibility, and functional tests. Observation and verification of contractual compliance were accomplished by attending the Qual Test Readiness Review meetings, serving as a Test Engineer at both contractor facilities and at JSC facilities, and reviewing reports of these tests. A Delta Qual Test Program was designed and completed as a result of hardware changes after the completion of the Qual Test Program. A report of this Delta Qual Test was included in the March, 1973 Monthly Progress Report.
2.2 Design Certification Review Report

A formal report was written to fulfill one of the requirements of the Skylab Design Certification Review (DCR). For this report pictures were taken to document current food system designs, viewgraphs were made for review presentations, and corrected editions of the initial report drafts were prepared. Motion pictures of food handling and preparation procedures were also made as part of this documentation. A final draft of this report was published as MSC-07288, "Skylab Food System DCR."

2.3 Open Item Status Log

Weekly Skylab Food System Open Item Status and Management Coordination Group Meetings were held due to the complexities and the number of activities involved in association with the design and production of the Skylab Food System. Assigned activities were discussed and problems reviewed by both NASA and contractor personnel at these meetings. An Open Action Item Log was maintained and minutes of the meetings, Requests for Engineering Change Proposals (RECP), and Contract Change Actions (CCA) were prepared and submitted. Also support of the Bioengineering Systems Division at Level II Configuration Change Boards was provided.

2.4 SMEAT IDR, DR, and FIAR Tracking System

The Skylab Medical Experiments Altitude Test (SMEAT), revealed several problem areas in the food system as noted in Intermediate
Discrepancy Reports (IDR), Discrepancy Reports (DR), and Failure Investigation Action Reports (FIAR). A log of these IDR's, DR's, and FIAR's was maintained and dispositions prepared as changes were made or analyses completed. These dispositions were then presented to Quality Control for approval and for closure of the reports. A copy of this report is shown as Appendix A.

2.5 Engrave Skylab Utensils

As a result of design reviews, a request was made for an identification method of individualized food and accessory items. One of these items, the Skylab OWS utensils, was engraved with the crewman's designation. Three sets each were engraved with "CDR", "SPT", and "PLT" and were shipped to KSC with three blank sets for flight stowage.

2.6 Coordination of KSC Activities for Skylab Food System

Facilities were constructed at KSC to provide bonded storage for food at both \(-10^\circ\text{F}\) and \(+40^\circ\text{F}\) in order to comply with Skylab food preflight storage requirements. Handling procedures were written to cover shipment from Whirlpool of the flight food units, receiving at KSC, and ground handling. These procedures were coordinated with KSC personnel and then included in the KSC final Test Checkout Procedures. Adherence to these procedures was verified during the shipment of the flight food in May, 1973.
2.7 **Food Item Matrix**

In order to consolidate information on Skylab food items, a Food Item Information Matrix was constructed. This matrix included part numbers, serial numbers, serving size, preparation information, mineral, calorie, and protein content, and manufacturer's data. This matrix was included in the console handbooks of the Mission Operation Control Room (MOCR) and the Staff Support Room (SSR). A copy of this matrix and an explanation of items in the matrix are included as Appendix B.

2.8 **Food System Accessory Hardware Matrix**

In an effort to consolidate information on accessory hardware, a Food System Accessory Hardware Matrix was developed. This matrix included stowage list numbers, part numbers, stowage locations, weights, and use sequence information. This matrix was also included in the MOCR and SSR console handbooks. A copy of this matrix and a definition of the column items are included as Appendix C.

2.9 **Study of Impact of Skylab Menus on Stowage Configuration**

A study of the impact of the Skylab menus on the stowage configuration to be used in the Skylab OWS was made. Preliminary studies were begun using non-finalized menus but were not completed until final menus were received. When the flight menus were received, a Configuration Change Board Directive (CCBD) was prepared and submitted. Approval of this CCBD provided a method of maintaining configuration control of the menus. Calculations were then made
to determine the space required to stow the menus. Appendix D shows that all but 21 large canisters and 18 small canisters were required to stow the planned menus. These calculations showed that space was not available for stowage of the quantities of overage food as required by the M070 experiments. Approval was obtained to launch food in two standard stowage lockers (W775 and W776) and in the chiller. These spaces were to be launched empty and to be used for in-flight food handling. With this extra stowage space, sufficient quantities of overage would be available to satisfy the M070 experiment requirements. Appendix E shows the items launched as overage and that these items would provide 414 calories per man per day.

2.10 Skylab Stowage and Orientation List

A stowage and orientation list was constructed as a result of the stowage impact studies. This orientation list had to consider menu use sequences, menu items, and hardware stowage restrictions. These restrictions are given in detail in Appendix F along with examples of the list as it was constructed. The list is approximately 450 pages in length and was used by Whirlpool Corporation to assemble the food in the restraint assemblies for flight stowage. A copy of this list is available in the Medical Data Center Library and Archive of the Biomedical Research Division, DB, Johnson Space Center. When this list was completed, a schedule of restraint assembly transfers was forwarded to the Crew Procedures Division for inclusion in the
crewman's log books. This schedule is shown in Appendix G.

2.11 Overage Food Launch Stowage Design

As stated before, the impact study showed that sufficient space had not been allocated for stowage of overage food items. A fit-check was made and it was determined that 12 small canisters could be stowed in a standard storage locker. Since the chiller was the same size as the freezer lockers, a freezer restraint assembly could be used to launch stow 10 canisters of ambient food in the chiller. A CCBD was prepared, processed, and approved to stow ambient food in Lockers W775, W776, and the wardroom chiller. Since a frozen food restraint assembly was being used, it was flight qualified by similarity. The design for the two standard lockers consisted of a continuous set of KEL-F sleeves (similar to a bullet-belt design) and a Beta-cloth overbag. With this design, flight qualification was restricted to vibration testing of the small canister configuration. A Delta Qualification Test Plan was prepared, the test was completed, and flight approval of this design was obtained. The KEL-F sleeves and Beta-cloth bags were prepared and forwarded to Whirlpool Corporation for flight packaging.

2.12 Temporary Can Covers

In-flight, temporary can covers were found to fulfill a request by one of the crewmen. It was determined that both these can covers and the fecal dye markers could be launch stowed in the dispenser module in the booklet designed to hold the Polyethylene Glycol capsules. A Preliminary Stowage List Change Notice (PSLCN) was
submitted and approved. A preliminary design was forwarded to Whirlpool Corporation and was implemented in the flight dispenser module.

2.13 Provide Food for Mini-Sims
Coordination of receipt and delivery of Flight Food to the Crew Procedures Division for use in crew training simulations was provided. A total of thirty-five (35) days of food was provided in flight packages using flight menus.

2.14 Modification of Food Trays
The letter "P" was added to the tops of the flight and flight back-up food trays to designate the cavity to be used for puddings. This was the solution to the SMEAT problem of enlargement of small cavities and loss of friction fit. This was due to a slightly larger diameter on the pudding cans when compared to the wafer cans.

2.15 Skylab Food Thermal Storage Tests
A thermal storage test was conducted at JSC as a result of the extremely high temperatures of the OWS during the period following launch of the OWS. This test was conducted on twenty (20) samples each of sixty (60) non-frozen items and followed the temperature profile of the OWS. After tests and comparison to control samples, all items were found to be safe for consumption.

2.16 OWS Food Inventory System
A ground-based, OWS on-board inventory system was developed to track usage of the excess OWS food. Inputs for this inventory came
from the Skylab menus, the stowage list, and the Evening Status reports from each mission. The form used to report daily changes in overage is shown as Appendix H. This form was also used to track usage of mineral supplements and salt packets. The net results of these changes were reported to the Operational Systems and Planning Branch on a weekly basis using the form shown in Appendix I. At the end of the SL/2 mission, the net change in calories was an addition of 1795 calories to the average available as shown in Appendix J.

2.17 Review of Daily Transcripts

The Dump Tape and Air-to-Ground Tape transcripts were reviewed on a regular basis during all three missions to determine any problems that might occur within the food system and to gain knowledge of the functional aspects of the food system. A log of these transcripts was maintained and edited copies were prepared for use by the Operational Systems and Planning Branch.

2.18 SL/III Mission Extension Planning

Support of the extension of the SL/III mission to 59 days was provided using information from the OWS excess food inventory. It was determined that by launching 13 items in the CM and by using food available on the OWS, three days of food could be provided with no impact to the M070 series of experiments. These items were shipped to KSC for flight stowage. A list of these items is shown in Appendix K. The location of the other items required for the
extension is shown in Appendix L. This list was forwarded to the Crew Procedures Branch for inclusion in the crewmen’s log books.

2.19 **SL/IV Mission Extension Planning**

Plans to extend the SL/IV mission were made using the information provided by the OWS excess food inventory. Launch requirement calculations were made for 5-day, 10-day, 14-day, and 28-day extensions. An analysis of quantities available on the OWS showed that a 28-day extension could be supported by providing new menus for the extra 28 days. For these menus approximately half of the calories were provided by Skylab food and half by high-caloric density food bars. A stowage study was conducted using weight and volume data for these menus. Mock-up launch configurations were assembled and fit-checks made. A launch design was approved employing beta-cloth bags strapped to the tops of the lockers under the crewmen’s couches. The food packages were prepared for flight use, shipped to KSC, and repacked in launch stowage configurations. A list of the food items launched on SL/IV is shown in Appendix M.

2.20 **SL/IV Overage Inventory System**

The amount of food remaining on board the OWS became one of the prime factors in the extension of the SL/IV mission. The quantities of food items and number of calories remaining were tracked on a daily basis and reported to the Director of the Life Sciences Division, JSC, on a weekly basis. The chart in Appendix N shows...
the form used to report the weekly inventory status. It shows quantities of food available at the beginning of SL/IV, quantities required to fulfill menu requirements thru the end of the mission, quantities remaining as of the reporting date, and excesses/shortages of food. Calories remaining onboard the OWS were also tracked and reported on a weekly basis as shown in Appendix 0. As shown, the projection indicated that excess food items would be left over at the end of the 84 day mission. These items are shown in Appendix P and were reported in the final SL/IV Mission Report.
APPENDIX A

IDR-DR-FIAR STATUS LOG
SMEAT

IDR - DR - FIAR STATUS LOG

FOOD SYSTEM

9/28/72
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<th>Item</th>
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<th>FIAR</th>
<th>STATUS</th>
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<td>1</td>
<td>4</td>
<td>Spaghetti bag broke open - Bobko</td>
<td>IS260142</td>
<td>77230005</td>
<td>H</td>
<td>7-24</td>
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<td>2</td>
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<td>Bread crumbs from biscuits</td>
<td>IS260179</td>
<td>H-EC-0196</td>
<td>7-29</td>
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<td>3</td>
<td>4</td>
<td>Spillage</td>
<td>IS260181</td>
<td>H-EC-0194</td>
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<td>8-8</td>
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<td>4</td>
<td>Leak in beverage valve or seam</td>
<td>IS260182</td>
<td>H-EC-0195</td>
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<td>8-8</td>
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<td>5</td>
<td>4</td>
<td>Leak in beverage valve</td>
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<td>H-EC-0195</td>
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<td>8-8</td>
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<td>6</td>
<td>4</td>
<td>Leak in seam; spillage; coffee valve leaked</td>
<td>IS260196</td>
<td>H-EC-0196</td>
<td>7-29</td>
<td>8-8</td>
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<td>7</td>
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<td>Stewed tomatoes leaked</td>
<td>IS260200</td>
<td>H-EC-0194</td>
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<td>8</td>
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<td>Refrigerator in Bldg 4</td>
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<td>Not a system discrepancy:</td>
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<td>9</td>
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<td>No cream in coffee</td>
<td>IS260205</td>
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<td>10</td>
<td>7</td>
<td>SPT has pebble in beans</td>
<td>IS260236</td>
<td>H-EC-0198</td>
<td>8-1</td>
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<td>11</td>
<td>7</td>
<td>SPT and PLT dye marker broke</td>
<td>IS260245</td>
<td>H-EC-0100</td>
<td>8-1</td>
<td>8-8</td>
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<tr>
<td>12</td>
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<td>Biscuit cans are smaller than other cans</td>
<td>IS260246</td>
<td>H-EC-0199</td>
<td>8-1</td>
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<td>13</td>
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<td>Seam in mashed potatoes failed</td>
<td>IS260253</td>
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<td>14</td>
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<td>Cross brace makes removal of items difficult</td>
<td>IS260282</td>
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<td>15</td>
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<td>Juice spillage on filet opening</td>
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<td>16</td>
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<td>Food trays do not provide friction fit</td>
<td>IS260306</td>
<td>H-EC-0203</td>
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<td>8-8</td>
<td>Cans to be checked</td>
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<td>17</td>
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<td>Coffee missing - PLT; biscuit missing</td>
<td>IS260299</td>
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<td>Eating utensil too small</td>
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<td>Ring pull broke on jam - wet run</td>
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<td>20</td>
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<td>Drink valve not operative - SPT</td>
<td>IS260344</td>
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<td>21</td>
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<td>SPT choked on hard candy</td>
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<td>8-26</td>
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<td>22</td>
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<td>Label on corn and crew checklist do not agree on oz. of water</td>
<td>1S260168</td>
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<td>23</td>
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<td>Drink dispenser will not empty completely</td>
<td>1S260381</td>
<td>H-EC-0206</td>
<td>8-13</td>
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<td>24</td>
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<td>SPT had reaction from pea soup</td>
<td>1S260397</td>
<td>H-EC-0207</td>
<td>8-17</td>
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<td>25</td>
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<td>Grape drink package failed (seams)</td>
<td>1S260449</td>
<td>12231402</td>
<td>8-21</td>
<td>9-26</td>
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<td>26</td>
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<td>Drink container valve failed - cocoa drink</td>
<td>1S260473</td>
<td>15230022</td>
<td>8-24</td>
<td>9-28 *</td>
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<td>27</td>
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<td>Drink container valve failed - grape drink</td>
<td>1S260474</td>
<td>15230026</td>
<td>8-24</td>
<td>9-28 *</td>
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<td>28</td>
<td>33</td>
<td>&quot;O&quot;-ring failure on coffee</td>
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<td>9-28 *</td>
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<td>29</td>
<td>39</td>
<td>Bread smashed and no powdered milk in corn flakes</td>
<td>1S260549</td>
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<td>9-26</td>
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<td>30</td>
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<td>No valve on grape drink</td>
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<td>9-28 *</td>
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<tr>
<td>31</td>
<td>41</td>
<td>Crew cuts fingers removing plastic cap on beverages</td>
<td>1S260563</td>
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<td>32</td>
<td>41</td>
<td>Cream style corn package leaked</td>
<td>1S260564</td>
<td>15230023</td>
<td>9-4</td>
<td>9-28 *</td>
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<td>33</td>
<td>41</td>
<td>Beverage container would not fit over water dispenser</td>
<td>1S260565</td>
<td>15230025</td>
<td>9-4</td>
<td>9-28 *</td>
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<td>34</td>
<td>42</td>
<td>Orange drink valve failed to function properly</td>
<td>1S260574</td>
<td>15230024</td>
<td>9-5</td>
<td>9-28 *</td>
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<td>35</td>
<td>45</td>
<td>SPT lemonade beverage container was empty</td>
<td>1S260603</td>
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<td>9-8</td>
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<td>36</td>
<td>46</td>
<td>Orange drink did not have loading spring behind valve</td>
<td>1S260605</td>
<td>15230019</td>
<td>9-9</td>
<td>9-28 *</td>
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<td>50</td>
<td>Coffee drink had &quot;O&quot; ring missing</td>
<td>1S260633</td>
<td>15230028</td>
<td>9-13</td>
<td>9-28 *</td>
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</tbody>
</table>

*Dispositioned to WPC for analysis per DR's listed.
APPENDIX B

FOOD ITEM INFORMATION MATRIX
Food Item Information Matrix

This matrix outlines and defines data relative to the individual food items used to make up flight crew menus. The matrix consists of each food item and a series of information columns relative to each. A definition of each column is given below.

**Food Type:** This defines the configuration of the food inside the container. Abbreviations used are defined as follows:

- R - Rehydratable Food
- T - Thermostabilized Food Item
- W - Wafer Food Package
- B - Beverage Item
- F - Frozen Item
- R 1 - Rehydratable Item in Spoon Bowl Pouch

**Item Number** - Number used to sequence food item in manufacturing.

**Part Number** - Number of food item as appears in the food system indentured parts list.

**Process Specification No.** - Number of document used to manufacture the food item.

**Serving Size** - Grams of product in individual food item. This does not include water weight used on rehydratable or beverage items.

**Can Size** - The diameter of the can in which the food item is contained.
- 401 - Four and one sixteenth inch diameter
- 208 - Two and one half inch

**Bev** - Beverage package

**Membrane** - A membrane is contained under the can pull tab lid panel on items marked "yes".
Wafer Pull Tab - A wafer pull tab is contained inside can on items marked "yes".

Wafer Membrane - A membrane is contained under the can pull tab on items marked "yes".

Reconstitution Wafer Quantity - Quantity of water which must be added to food item prior to consumption.

Reconstitution Time - Time required from addition of water prior to consumption.

Add Water - Defines whether hot or cold water is added to food item.

Moisture Content - Amount of moisture in each food item.

Homogeneous - Items marked "yes" contain a homogeneous food mixture and residuals can be weighed on the specimen mass measuring device. Items marked "no" require crew to all or none.

Vendor - Manufacturers who prepare the food in accordance with the process specification.

Potassium - Defines the amount of potassium in the food item.

Calcium - Defines the amount of calcium in the food item.

Phosphorus - Defines the amount of phosphorus in the food item.

Sodium - Defines the amount of sodium in the food item.

Magnesium - Defines the amount of magnesium in the food item.

Calories - The number of calories in each food item.

Kneading - Items marked "yes" or "shake" require kneading.

Can be Prepared at Previous Meal - Self explanatory

Can be Chilled After Opening or After Preparing - Self explanatory

Can be Heated After Opening or After Preparing Items - Self explanatory

Package Weight - Weight of package less food item.

Utensils Used - Recommended utensils, actual use is crew option.
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<th></th>
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<tbody>
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**FOOD TYPE - VEGETABLES**

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## Skylab Food System Information Matrix

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### Food Type:主食

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<th>C</th>
<th>D</th>
<th>E</th>
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<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
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<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
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</table>
APPENDIX C

FOOD STOWAGE MATRIX
Food Stowage Matrix

This matrix outlines and defines data relative to the Food System Hardware as stowed on the Spacecraft. The matrix, consists of each stowage list line item with a series of information columns relative to each. A definition of each column is given below:

Stowage List No. - The item number listed in the Skylab Stowage list.
Quantity - Number of like items stowed on the Spacecraft.
Item - Item name.
Part Number - Self explanatory
Serial Number - Actual flight item serial number.
Weight - Stowed weight
Dimensions - Item dimensional envelope.
Vehicle Stowage Location - Stowage locker number.
Nominal Use Time - Approximate use rate on expendable items.
Vehicle Interface - How items are attached to the Spacecraft.
Backup - Quantity and location of backup items.
Use Sequence - Sequence of flight use of assemblies.
Assembly Contents - Number of sub-assemblies in item.
APPENDIX D

CANISTER USAGE CALCULATION
## OVERAGE CALCULATION

<table>
<thead>
<tr>
<th>SL/2</th>
<th>Large Canisters</th>
<th>Wafer Canisters</th>
<th>Pudding Canisters</th>
<th>Beverage Canisters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>43 + (11R*)</td>
<td>19 + (5R)</td>
<td>5 + (5R)</td>
<td>53 + 13&quot;*</td>
</tr>
<tr>
<td>SL/3</td>
<td>102 + (10R)</td>
<td>65 + (7R)</td>
<td>21</td>
<td>96 + 8 1/2&quot;*</td>
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<tr>
<td>SL/4</td>
<td>96</td>
<td>40 + (3R)</td>
<td>13 + (2R)</td>
<td>127 + 6&quot;*</td>
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</tbody>
</table>

242 + 9R

125 + (3R)

40

278

<table>
<thead>
<tr>
<th>OWS Stowage</th>
<th>Large Canisters</th>
<th>242 + 9 Cans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>443 + 3 Wafer Cans</td>
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</tbody>
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### Required

<table>
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<tr>
<th>Total Available</th>
<th>Required</th>
<th>Overage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large</td>
<td>264</td>
<td>242 + 9 Cans = 21 + 3 Cans</td>
</tr>
<tr>
<td>Small</td>
<td>462</td>
<td>443 + 3 Wafer Cans = 18 + 9 Wafer Cans</td>
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</table>

Parentheses indicate number of cans in next canister.

*Stack height of beverages in next canister.
APPENDIX E

SKYLAB OVERAGE ANALYSIS
<table>
<thead>
<tr>
<th>Food Item</th>
<th>Overage Qty</th>
<th>Canister Size</th>
<th>Per Item Cal.</th>
<th>Protein (g)</th>
<th>Totals Cal.</th>
<th>Protein (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beverage</strong></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Cherry Drink</td>
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<td>Lemonade</td>
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<td>Coffee</td>
<td>61</td>
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<td>Tea w/Lemon and sugar</td>
<td>17</td>
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<td>17</td>
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<th>Protein (g)</th>
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<th>Protein (g)</th>
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<td>1691</td>
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<tr>
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<td>5</td>
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<td>38.7</td>
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<td></td>
<td><strong>375</strong></td>
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<td>37.1</td>
<td>3213</td>
<td>333.9</td>
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<td>Ice Cream</td>
<td>9</td>
<td>Large</td>
<td>312</td>
<td>4.5</td>
<td>2808</td>
<td>40.5</td>
</tr>
</tbody>
</table>

Average per crewman per day*  
*Based on 126 Mission Days.
APPENDIX F

SKYLAB STOWAGE & ORIENTATION LIST
SKYLAB STOWAGE AND ORIENTATION LIST

The baseline flight menus were used to construct a Skylab Stowage and Orientation List. This list will provide the exact stowage location of all food provided for all three Skylab missions and will be used by Whirlpool Corporation (WPC) to pack the food for in-flight stowage.

The orientation and stowage list will include stowage of the following:

<table>
<thead>
<tr>
<th>Ambient Food Stowage</th>
<th>Frozen Food Stowage</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 Restraint Assemblies</td>
<td>5 Restraint Assemblies</td>
</tr>
<tr>
<td>264 Large Food Canisters</td>
<td>50 Large Food Canisters</td>
</tr>
<tr>
<td>462 Small Food Canisters</td>
<td></td>
</tr>
</tbody>
</table>

This OWS stowage list includes 387 total man/days of ambient food which will provide for the following days:

- **SL/2** - Mission Days 5-29 (A)
- **SL/3** - Mission Days 5-57 (A)
- **SL/4** - Mission Days 5-57 (A)

The frozen food stowage is the same except in addition to the days listed above, the CSM-transferred food is supplemented with frozen food on Mission Day 4 of SL/3 and SL/4. The stowage list for the CSM will be constructed later.

In order to construct this stowage list, menus had to be broken down into sequential listings of the food items in the order of usage. This sequential ordering was completed...
for each crewman's menu and grouped by crew with the Commander (CDR) first, Scientist-Pilot (SPT) second, and Pilot (PLT) third. During this process the food items were divided into five groups for stowage: large cans, wafer cans, puddings, beverages, and frozen items. Within each ambient food restraint assembly, the twenty-one small canisters had to be divided among wafer items, puddings, and beverages without mixing can sizes in a given canister.

The following constraints were followed in constructing the stowage list:

1) Menus are based on a six-day cycle

2) Physical limitations included:
   1) Twelve ambient, large food cans per canister
   2) Seven puddings per small canister
   3) Twelve wafer cans per canister
   4) Twelve frozen cans per canister
   5) Beverage stack height not to exceed 15.5 inches
   6) Each frozen food restraint assembly will hold 10 canisters of frozen food
   7) Each ambient restraint will hold 12 large canisters and 21 small canisters of food
   8) Restraints 1-4 were assigned to SL/2
      Restraints 5-13 were assigned to SL/3
      Restraints 14-22 were assigned to SL/4
9) All crewmen should require a transfer of the next restraint assembly on approximately the same day and at the same meal

10) All overage should be put in odd numbered restraint assemblies for accessibility (odd numbered restraints are in the front of food lockers)

11) Meals could not be divided between frozen restraint assemblies
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|             | BACON WAFERS     | 11  | A    | CDR     |            |             |
|             | CATSUP           | 5   | B    | SPT     |            |             |
|             | BUTTER COOKIES   | 5   | S Y  | SPT     |            |             |
|             | APRICOTS         | 5   | S Y  | SPT     |            |             |
|             | CATSUP           | 6   | A    | SPT     |            |             |
|             | PEANUT BUTTER    | 6   | B    | SPT     |            |             |
|             | JAM              | 6   | B    | SPT     |            |             |
|             | APRICOTS         | 6   | S    | SPT     |            |             |
|             | BUTTER COOKIES   | 6   | S Y  | SPT     |            |             |
|             | CATSUP           | 7   | C    | SPT     |            | 36<         |

**Notes:**
- Locker No: ____________
- Canister Type: **SMALL**
- Retainer Type: **WAFFER**
- **RED** MEAL
- **YELLOW** MEAL
- **36<** indicates a specific measurement or code.
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APPENDIX G

SKYLAB FOOD TRANSFER SCHEDULE
**Skylab Food Transfer Schedule**

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*The transfer must occur before this time to allow for preparation for next meal.
APPENDIX H

FOOD CONSUMPTION/MINERAL SUPPLEMENT REPORT
# Food Consumption/Mineral Supplement Report

## CDR / SPT / PLT Menu Day 1  DOY 263

### Items Included in Menus But Not Consumed

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<td>Pears</td>
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<td>Peanuts</td>
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<td>39</td>
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### Overage Items Consumed

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### Mineral Supplements

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This report details the food items included in the menus and the mineral supplements taken by the crew members during their 263rd day on mission.
APPENDIX I

WEEKLY OVERAGE CHANGE REPORT
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APPENDIX J

OVERAGE CALORIE DATA - END OF SL/2
### OVERAGE CALORIE DATA

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Additional calories available from SL/2 - 1795
Overage calories available at beginning of mission - 156,481
Overage calories available for SL/3 and SL/4 - 158,276
APPENDIX K

SL/3 LAUNCHED FOOD
The food listed below was launched on SL/3 for use in the 3-day extension of the SL/3 mission. All other food items required for the extension were available on the Skylab OWS.

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APPENDIX L

3-DAY EXTENSION FOOD LOCATIONS
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APPENDIX N

SKYLAB IV FOOD INVENTORY THRU MISSION DAY 53
## SKYLAB FOOD INVENTORY THRU MISSION DAY 53

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<td>QUANTITY REQUIRED FOR MENUS</td>
<td>QUANTITY REMAINING</td>
<td>EXCESS + SHORTAGE</td>
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APPENDIX O

CALORIES REMAINING ONBOARD OWS

vs

MISSION DAYS
APPENDIX P

OWS FINAL FOOD INVENTORY
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<td>Bread</td>
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<td>Butterscotch Pudding</td>
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