1973 LEWIS INSPECTION

STOP	TITLE
1	QUIETING THE FLEET
2	CLEANER SKIES
3	POWERED LIFT
4	BIG BOOST FROM ROCKETS
5	SPACE ELECTRONICS TECHNOLOGY
6	CLEAN ENERGY
7	MATERIALS FOR MAN
8	THE IMPACT OF WEAR
9	SERVANTS IN SPACE
10	NASA EXHIBIT AREA

1973 I[illegible]S INSPECTION

SEPTEMBER 19-21, 1973

STOP No.	TITLE	LOCATION	ORGANIZER	ASSOCIATE	CONSULTANT	BLDG. MGR.	TSCO REP.
1	Quieting The Fleet	10 X 10	E. W. Conrad (8353, 501-4)	B. Leonard (8540, 501-5)	C. Hauser (8179, 5-9)	F. Dunn (4127)	J. Sikora (7189)
2	Cleaner Skies	PSL 3 & 4	R. E. Jones (8184, 60-6)	H. Calvert (8504, 60-6)	C. Hauser (8179, 5-9)	H. Wine (8109)	P. Laisure (3159)
3	Powered Lift	9 X 15	R. Luidens (8044, 501-2)	C. Winzig (7245, 5-3)	C. Hauser (8179, 5-9)	B. Kluchnik (8085)	D. Goble (2257)
4	Big Boost from Rockets	Zero-G	H. Douglass (8121, 500-205)	R. Kohl/J. Kramer (8122, 500-205/8205, 500-103)		B. Kluchnik (8085)	R. Cimber (3168)
5	Space Electronics Technology	EPL	E. Otto (6175, 54-1)	E. Hurst (4110, 54-1)	E. Miller/ Alexovich (8159, 54-5)	D. Thoennes (3202)	F. Baldizzi (3168)
6	Clean Energy	ERB, Center Section	L. Rosenblum (6278, 302-1)	F. Stenger (2171, 309-1)	C. Hauser (8179, 5-9) L. Shure (8388, 500-201) G. Brown (5237, 301-1)	N. Ricciardi (6218)	P. Getz (3184)
7	Materials for Man	MPL	J. Freche (3105, 49-1)	F. Garrett (2158, 49-1)		L. Herman (2298)	D. Prok (8172)
8	Impact of Wear	ERB, West Wing	R. L. Johnson (6238, 23-2)	M. Swikert (2142, 23-2		N. Ricciardi (6218)	D. Goble (2257)
9	Servants in Space	Ad. Bldg. Auditorium	H. Mark (5232, 301-1)	R. Gedney (5219, 301-1)	H. Maslach (5133, 23-1)	H. Maslach (5133, 23-1)	D. Prok (8172)
				Stanley S. Freden, GSFC, 301/982-5818 Ken Kleinknecht, JSC, 713/483-3558			
10	NASA Exhibit Area	Hangar	J. Modarelli (2117, 5-5)	R. Schulke (4206, 5-5)		R. Kravanya (2155)	D. Prok (8172)

STOP 1

STOP NUMBER 1 - "QUIETING THE FLEET"

LOCATION - 10 X 10 SUPERSONIC WIND TUNNEL

STOP ORGANIZER - E. W. CONRAD

STOP ASSOCIATE - B. LEONARD

BUILDING MANAGER - FRANK H. DUNN

TECHNICAL SERVICES - JOHN SIKORA

DOCUMENTARY FILM

SPEAKERS - TEAM 1:
JAMES R. STONE
ALLEN M. KARCHMER
RONALD G. HUFF
KENNETH J. BAUMEISTER
WILLIAM A. OLSEN, JR.

TEAM 2:
CARL C. CIEPLUCH
JAMES H. DITTMAR
JOHN W. SCHAEFER
FRANCIS J. MONTEGANI
JOSEPH A. YUSKA

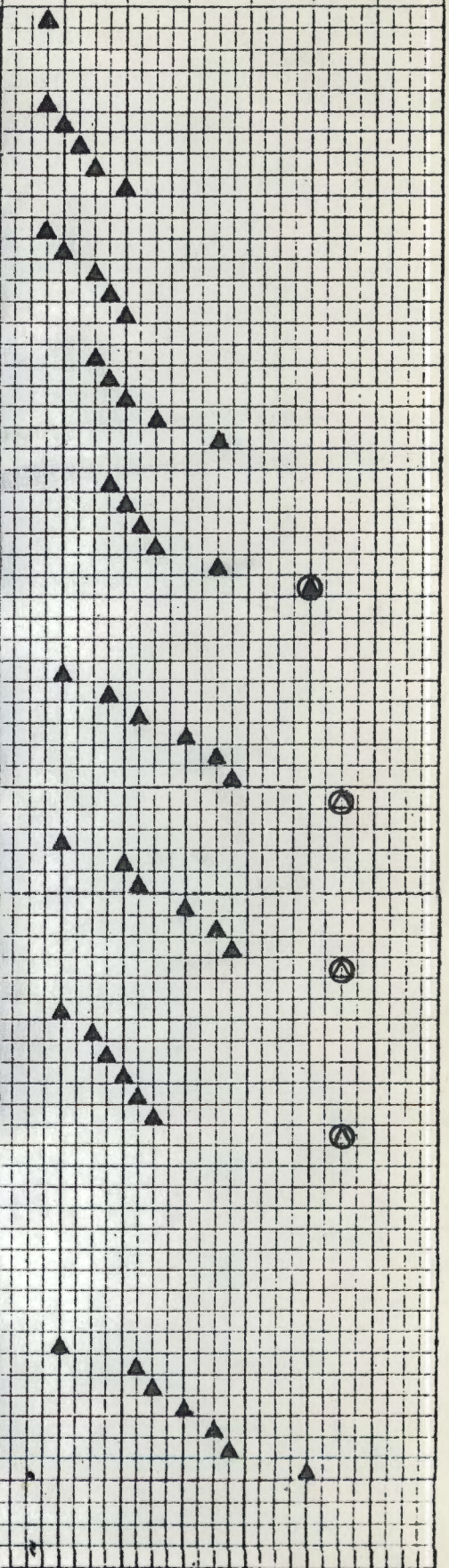
"QUIETING THE FLEET"

1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 1

SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE
I. RESPONSIBLE PERSONNEL ASSIGNMENTS			
II. STOP PLANNING			
1. Presentation Outline			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
2. Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
3. Presentation Text			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Division Review			
e. Approved by Inspection Hq.			
4. Revised Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
III. PARTICIPANT (SPEAKERS, ETC.) ASSIGNMENT			
IV. PRESENTATION VISUALS PREPARATION			
1. Slides			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
2. Charts			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
3. Models			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
4. Movies			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
5. Other Displays			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			



NASA-C-79.0 (Rev. 7-71)

Organizer: E. W. Conrad (8353, 501-4)
Associate: B. Leonard (8540, 501-5)
Consultant: C. Hauser (8179, 5-9)

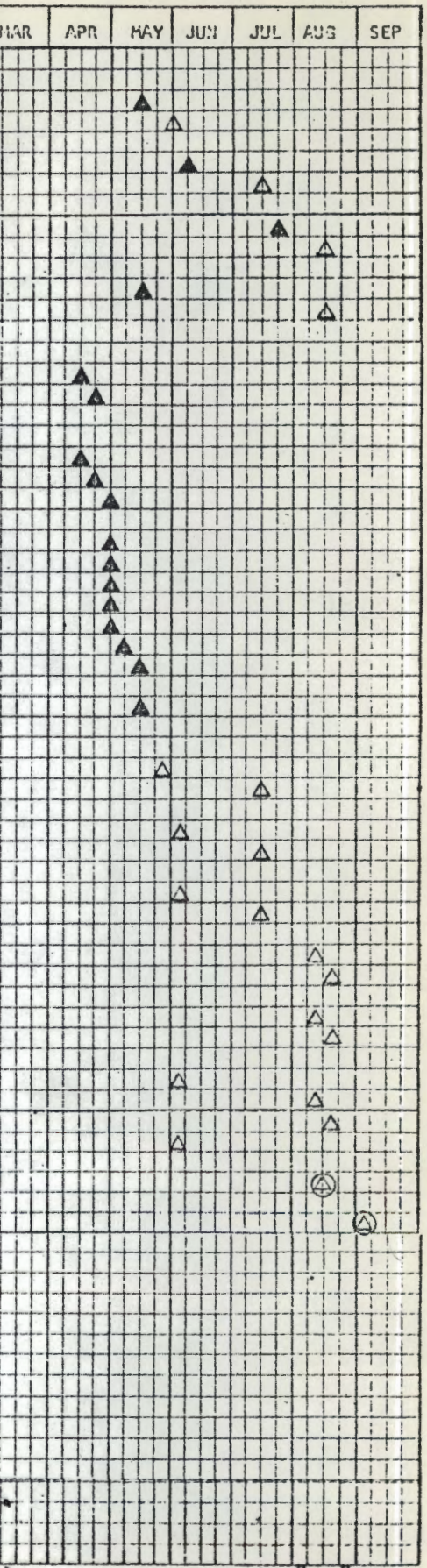
"QUIETING THE FLEET"

1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 1

SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE
V. GENERAL AREA PREPARATION			
1. Requirements Analysis (signs, cleanup, painting)			
a. Begun			
b. Completed			
2. Sign Preparation			
a. Begun			
b. Completed			
3. Painting			
a. Begun			
b. Completed			
4. Cleanup			
a. Begun			
b. Completed			
VI. SITE PREPARATION			
1. Exhibit Requirements Analysis Completed			
2. Preliminary Safety Review Completed			
3. Stage and Seating			
a. Plan (Detail Sketches)			
(1) Preparation begun			
(2) Submitted for Division Review			
(3) Approved by Division			
b. Design			
(1) Stage			
(2) Backdrop			
(3) Static Displays			
(4) Submitted for Division Review			
(5) Approved by Division			
(6) Submitted for Insp. Hq. Review			
(7) Approved by Insp. Hq.			
c. Equipment Ordered (Projectors, Screens, Special Lighting, Artwork, etc.)			
d. Construction/Installation			
(1) Stage			
(a) Begun			
(b) Completed			
(2) Backdrop			
(a) Begun			
(b) Completed			
(3) Static Displays			
(a) Begun			
(b) Completed			
(4) P.A. Systems			
(a) Begun			
(b) Completed			
(5) Projection Systems			
(a) Begun			
(b) Completed			
(6) Special Signs, etc.			
(a) Begun			
(b) Completed			
e. All Operating Systems Tested			
f. Final Safety Review Completed			
VII. DIVISION REHEARSAL			
VIII. INSPECTION MANAGER'S REHEARSAL			



STOP NUMBER 10 - "NASA EXHIBIT AREA"

LOCATION - FLIGHT RESEARCH BUILDING (HANGAR)

STOP ORGANIZER - JAMES J. MODARELLI

STOP ASSOCIATE - RICHARD SCHULKE

NASA REPRESENTATIVES

AMES	-	FRED STYLES/STANLEY MILLER
LANGLEY	-	AXEL MATTSON
WALLOPS	-	JOSEPH E. ROBBINS
MARSHALL	-	J. A. BETHAY
KENNEDY	-	GORDON HARRIS
FLIGHT	-	RALPH B. JACKSON
JOHNSON	-	KENNETH S. KLEINKNECHT
GODDARD	-	GEORGE COLETTO
JPL	-	RICHARD PHILLIPS

BUILDING MANAGER - RUDY KRAVANYA

TECHNICAL SERVICES - DANIEL PROK

SHIPPING COORDINATOR- A. H. PAGLIUCO

1973 L[illegible]S INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL-HANGAR
J. Modarelli

SCHEDULE DATE: March 12, 1973

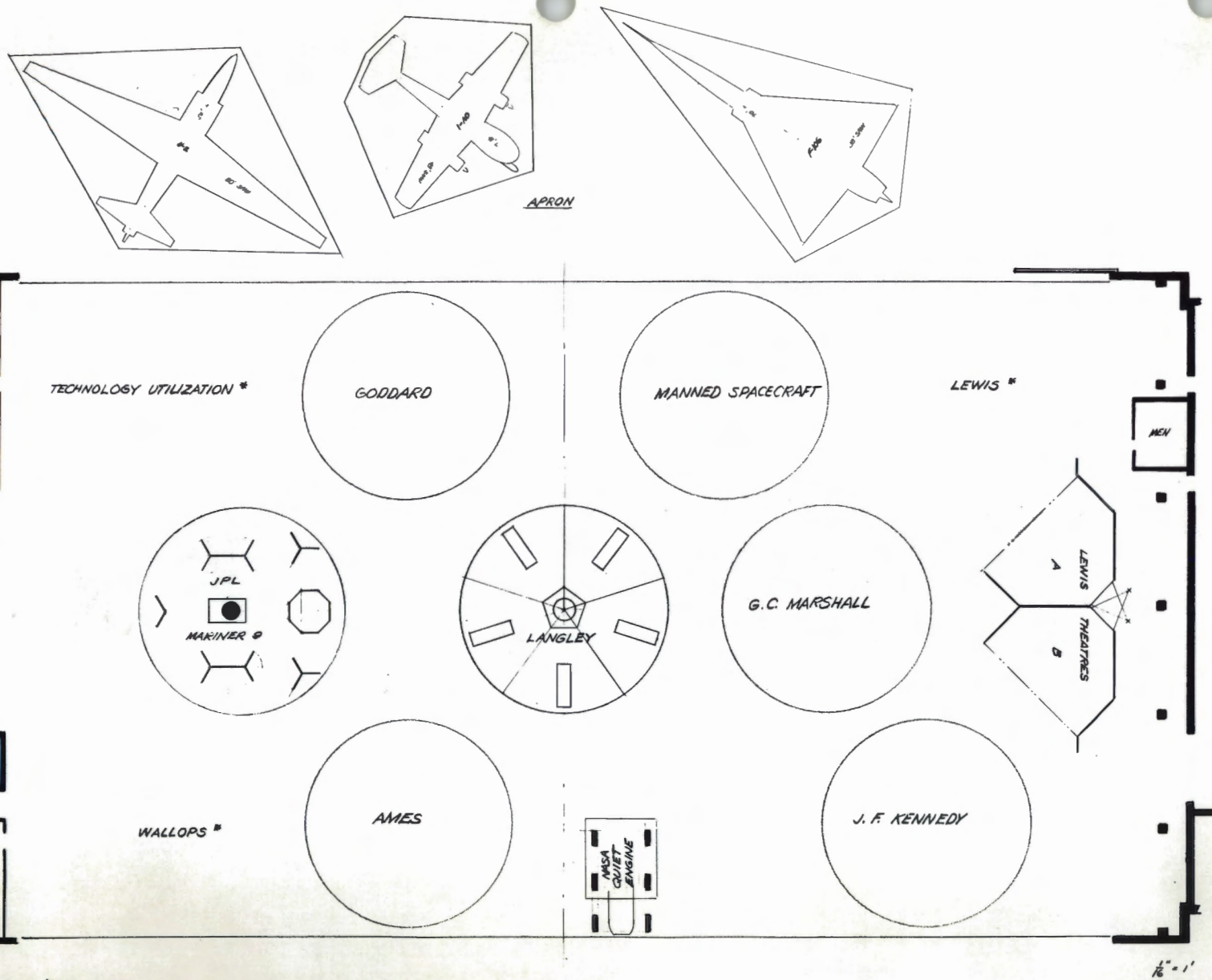
ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE	MAR	APR	MAY	JUN	JUL	AUG	SEP
I. DETERMINE EXHIBITS FROM:								△		
1. Smithsonian Institute										
2. NASA										
a. Headquarters										
b. Langley										
c. AMES										
d. Manned Space										
e. Marshall										
f. Goddard										
3. NASA Contractors										
a. GD/C										
b. JPL										
II. SHIPPING ARRANGED								△	△	
III. LAYOUT DETERMINED										
1. Rough										
2. Final										
IV. ALL EXHIBITS										
1. Received										△
2. Erected										△
V. AUXILLIARY SETUPS COMPLETED										
1. Bathrooms										△
2. Refreshments										△
3. Seating										△

NASA-C-79[illegible] (Rev. 7-71)

HANGAR EXHIBIT AREA

STOP 10

	ORGANIZATION	PAX	MAIL STOP
Chairman	James J. Modarelli	2117	5-5
Co-Chairman	Richard G. Schulke	4206	5-5
Building Manager	R. F. Kravanya	2155	4-2
Shipping Coordinator	A. J. Pagliuco	5102	28-1
Logistics	M. Filipovic	8074	107-1
TU Exhibits	Harrison Allen	8049	3-19
Publicity	Hugh Harris	2140	3-11
Lewis Hangar Subject Areas:			
Noise	Carl Ceipluch	4277	501-4
	Lou Roskilly	8031	501-4
Technology Utilization	Harrison Allen	8049	3-19
Motion Picture	Lou Revnyak	2158	49-1
Electrical	John Maclean	8525	23-1
Bar	Jack Powell	8480	5-5
Store	Robert Schmidt	8000	3-7
Educational Services	Calvin Weiss	8001	6-3
ASRADI	Paul Ordin	6134	6-2
Spacemobile Lectures	Calvin Weiss	8001	6-3
NASA Headquarters:			
Exhibits	Al Nagy	8-202-755-3345	
Technical Information	Frank Rowsome	8-202-755-3548	
Technology Utilization	Jeffry Hamilton	8-202-755-3777	
Educational Programs	Fred Tuttle	8-202-755-3602	
International Affairs	Arnold Frutkin	8-202-755-3868	
NASA Center contacts for Hangar Exhibits:			
Ames	Fred Styles	8-415-965-5105	
Alternate	Stan Miller	8-415-965-5091	
Langley	Axel Mattson	8-703-827-2932	
Alternate	Pete Korycinski	8-703-827-2526	
Wallops	Joseph E. Robbins	8-804-824-2201	
Marshall	J. A. Bethay	8-205-453-3079	
Also	Erich McInnes	8-205-453-3077	
Alternate	Tom Andrews	8-205-453-0037	
	Ross Rives	8-205-453-0037	
Kennedy	Paul Gauger	8-305-867-5496	
Alternate	Ray Corey		
Flight Research	Ralph B. Jackson	8-805-258-2221	
Johnson (Manned Space)	Kenneth S. Kleinknecht	8-713-483-3558	
Also	Willis Mitchell	8-713-483-2126	
And	Paul Sturtevant	8-713-483-4241	
Alternate	Charles Biggs	8-713-483-4241	
Goddard	George Coletto	8-301-982-4955	
Jet Propulsion Lab	Richard B. Phillips	8-213-354-7006	
Alternate	Frank Colella		
Plum Brook	John Weeks	10-359	
Smithsonian:	Fred Durant	8-202-381-5768	
Center contacts for Technology Utilization Exhibits:			
Marshall	Tom Andrews	8-205-453-0037	
Ames	Paul Bennett	8-415-965-5659	
Also	Bradford Evans	8-415-965-5554	
Langley	John Samos	8-703-827-3281	
Kennedy	Lee DuGoff	8-305-867-2544	
Johnson	Charles Biggs	8-713-483-4241	
Goddard	Charles Boyle	8-301-982-5366	
Headquarters	Alex Nagy	8-202-755-3345	


APRON
TECHNOLOGY UTILIZATION *
GODDARD
MANNED SPACECRAFT
LEWIS *
WOMEN
MEN
JPL
MARINER 9
LANGLEY
G.C. MARSHALL
LEWIS
A
B
THEATRES
AMES
WALLOPS *
NASA QUIET ENGINE
J. F. KENNEDY
* TO SUIT
1/16" = 1'
HANGAR
STOP # 10
PARKING (GRAVEL)

April 12, 1973

1010

Dr. Christopher C. Kraft, Jr.
Director
Lyndon B. Johnson Space Center
National Aeronautics and Space Administration
Houston, TX 77058

Dear Chris:

As you probably know, NASA, at George Low's instigation, plans a series of formal "inspections" of each of the field Centers, in turn, as one way to help review our achievements and program for an influential segment of the public, and Lewis is to lead off. Accordingly, we have set Wednesday, September 19 through Sunday, September 23 as the dates and "Technology in the Service of Man" as the theme for the 1973 inspection. I cordially invite you to attend the inspection personally; we will send you more details later. I also earnestly solicit your cooperation in order that we can highlight activities from all of NASA and not just Lewis.

Inspection plans call for hosting about 500 invited guests on September 19 to 21 and larger numbers of local public on September 22 and 23. On September 19 to 21, guests will be conducted among 10 tour stops, with approximately 25-minute lecture-demonstrations at 9 of them, as follows (tentative titles):

1. Quieting the Fleet
2. Cleaner Skies
3. Powered Lift
4. Big Boost from Rockets
5. Space Communications Technology
6. Energy for a Better Life
7. Materials for Man
8. The Impact of Wear
9. Servants in Space (Emphasizes ERTS and Skylab-EREP)
10. General Assembly and NASA Exhibit Area

I will need your help with item 9, "Servants in Space", as this discussion will feature capabilities and findings with Skylab-EREP. Will you designate a representative from your staff, and

after discussing your contribution with him, put him in touch with us--hopefully by mid April? Our coordinator for this item 9 is Mr. Edward A. Richley, Chief of Operations Analysis and Planning Office, FTS 216-433-6775.

The tenth location, our hangar area, will be for general assembly and our main exhibit area; it is here that we want to display representative work and programs from other NASA Centers. In order that your Center be properly represented, will you, by mid-April, please name someone who will be coordinating your Center's participation? Coordinator of this tenth location here is Mr. James Modarelli, Chief of the Management Services Division, FTS 216-433-6460.

I am looking forward to your participation and to having you with us this fall.

Best personal regards,

Sincerely yours,

Bruce T. Lundin
Director

June 29, 1973

MEMORANDUM

TO: 1003/Inspection Headquarters

FROM: Chief, Management Services Division

SUBJECT: Hangar Exhibit Area

About 36,000 square feet will be available in the Hangar for Exhibits. All NASA Centers have been contacted (Attachment I), and we are now awaiting specific details on their participation.

We have created an interim floor plan (Attachment II) showing the participants and we will be adding the cocktail bar area after more details are available. (Lewis exhibit items will be utilized as appropriate).

The cocktail bar area will be modified to accomodate the sales counter for souvenirs during the "Open House" days following the Inspection.

James J. Modarelli

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER
HOUSTON, TEXAS 77058

REPLY TO ATTN OF: KA2-34-73

August 6, 1973

Dr. W. T. Olson
Director, Technology Utilization and Public Affairs
Mail Code 3-16
NASA Lewis Research Center
21000 Brookpark Road
Cleveland, OH 44135

Dear Dr. Olson:

The purpose of this letter is to summarize the status of planning and preparation for the participation of this Center in the 1973 Lewis inspection. Mr. J. J. Modarelli, of Lewis, visited in Houston on July 25, 1973, and met with representatives of the JSC Skylab Program Office, Science and Applications Directorate, Public Affairs Office, Kennedy Space Center, and Marshall Space Flight Center regarding plans for the general display area. On August 1, representatives of the same JSC offices traveled to Lewis to meet with Dr. Herman Mark concerning the presentation material and displays for the servants in space tour stop. These meetings, as well as additional telephone discussions with Goddard Space Flight Center participants, have served to establish the specific requirements for our participation and have also eliminated any inter-Center duplication which might have existed.

The floor layouts for the hangar general display area have been prepared and the specific display items are being prepared or assembled. Enclosure 1 is a listing of the display items we plan to furnish for this area. Enclosures 2 and 3 show the preliminary floor layouts. All of these materials are scheduled to be in place in the hangar area on September 12. In addition to this material for the JSC area, we will also participate in the joint Space Shuttle display area with item 5(b) of enclosure 1.

For the servants in space tour stop, we will employ two displays of the type shown in enclosure 4. A small model of the Skylab and a 3-foot Skylab logo will be included for added interest. This material

will be available in the auditorium at Lewis for the rehearsal presentation on September 6. Since the tour participants will have little time to examine these displays at this tour stop, they will be duplicated in the hangar display area where they may be examined at leisure.

The rough draft of the oral presentation material was submitted to Dr. Mark at Lewis on July 27. The final edited and corrected version will be submitted on August 7. JSC will supply two speakers to support the servants in space tour stop. These speakers will be Mr. J. L. Kaltenbach, Science and Applications Directorate, and Mr. L. H. Ballinger, Earth Resources Program Office. These speakers will be present at Lewis to support the rehearsal on September 5 and 6, and on September 19 through 21.

The dates for delivery of display items and oral presentation material were agreed to by Dr. Mark and Mr. Modarelli. Any required adjustments in these dates should be made as soon as possible.

On August 20, I will hold a review of the displays and visual and oral presentations which JSC will furnish for the inspection. I would be very pleased to have a representative from Lewis present at that review. If you have any questions or any comments concerning our participation, please call me at any time. We are pleased to support your activity and wish to cooperate in every way.

Sincerely,

Kenneth S. Kleinknecht

Kenneth S. Kleinknecht
Manager
Skylab Program

4 Enclosures

cc:
LeRC, 5420/H. Mark
LeRC, 1900/J. J. Modarelli
LeRC, 1011/C. W. Weiss

bcc:
AA/C. C. Kraft, Jr.
AB/S. A. Sjoberg
AC/G. W. S. Abbey
AP/J. W. King
DA/R. S. Johnston
HA/C. E. Charlesworth
HA/J. G. Zarcaro
HB/O. Smistad
HB/L. H. Ballinger
KA/A. D. Aldrich
TA/A. J. Calio
TF/R. B. MacDonald
TF6/J. L. Kaltenbach

KA2/WBMitchell:mlw:8/7/73:2126

PROPOSED EXHIBITS FOR LRC INSPECTION
September 19-21, 1973

1. Apollo Command Module (to be shipped to LRC from Downey in route to Smithsonian).

2. Apollo/Soyuz Exhibit including 2/5 scale docking system (used at the Paris Air Show).

3. Life Sciences (to be developed).

4. Full scale Apollo 17 ALSEP equipment.

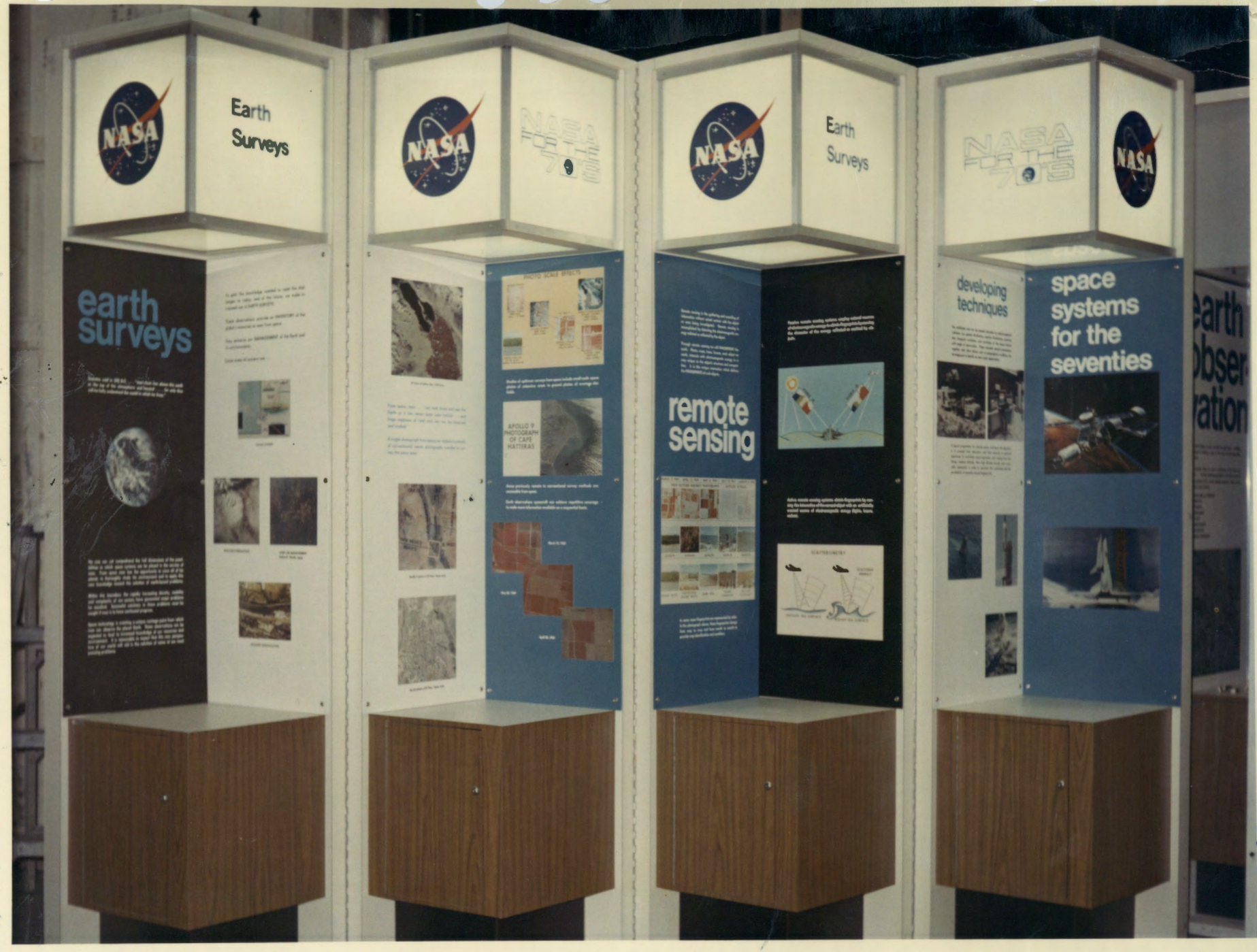
5. Modular exhibits covering the following areas: (each display to be 5' to 10' in length).

   a. New knowledge (earth resources)
   b. Life Sciences (complete)
   c. EREP (to be constructed)
   d. Lunar Sample Material Preparation and Distribution
   e. Lunar Geology
   f. Space Food (Mercury, Gemini, Apollo and Skylab)
   g. Skylab Suit Exhibit
   h. Space Shuttle
   i. Apollo - Man to the Moon (complete)
   j. Man in Space, The First Decade (complete)
   k. Earth Surveys (complete)
   l. Fire Safety (complete)
   m. Earth Observations (complete)
   n. Skylab Medical (complete)
   o. Veterinary Medicine in Space (complete)
   p. Apollo Medical (complete)
   q. Bioinstrumentation, Apollo (complete)

6. 25' Spectrum of Electromagnetic Energy Radiation Panel Display.

NASA
S-72-35062

WP



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

August 23, 1973

REPLY TO
ATTN OF: 1900 M.S. 5-5

TO: NASA Goddard Space Flight Center
Attn: George Coletto

FROM: Chairman, Hangar Exhibit Area

SUBJECT: Lewis Inspection Participation

Attached is an interim floor plan layout of the Lewis Hangar. It reflects the latest information available to us and is obviously subject to change until we receive final decisions on exhibit contributions from all participants.

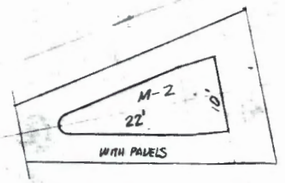
Your comments and suggestions are solicited. We would appreciate your individual floor plan to scale and answers to the questions listed below not later than August 29. Please indicate on the floor plan which exhibits are single and which are double-faced.

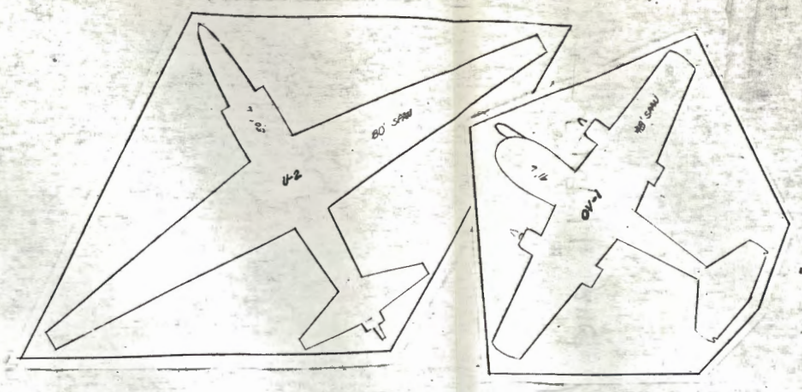
(a) Expected shipping date
(b) Anticipated arrival date
(c) Shipper's name and Government Bill of Lading Number
(d) Names of personnel to assist in exhibit setup
(e) Personnel arrival date, flight number, etc.
(f) Motel requirements
(g) Estimate total man-hours for setup
(h) Number of man-hours Lewis is expected to provide
(i) Recommended location of electrical service supply line(s)
(j) Amperage requirements
(k) Other

In addition to electrical service to your area, Lewis will supply a triangular sign to be suspended 12 to 15 feet over each Center's area. This sign will measure 8 feet on a side by 20 inches high and will include the Center's title and location.

We are looking forward to working with you. Please let us know if we can be of additional assistance.

James J. Modarelli





FLIGHT RES. CENT.

GODDARD SPACE FLIGHT CENT.

MARSHALL SPACE FLIGHT CENTER 70'ϕ

JOHNSON SPACE FLIGHT CENTER 50'ϕ

SPACE SHUTTLE M.S.F.

KENNEDY SPACE CENTER 55'ϕ

JET PROPULSION LAB.

SPACEMOBILE LECTURE

WOMEN

7'

TV

F-106 UPPER AIR SAMP.

U2

ERTS THEATRE 50 x 60

AMES RESEARCH CENT.

ILLIAC

SLIDE

JUPITER

MEDICAL APPLICATIONS AMES

TRENCH

MEN

20'

SOUVENIR STAND

LANGLEY RESEARCH CENTER 50'ϕ

WALLOPS STA.

LEWIS THEATRES A B

QF

LEWIS R.C.

PLUM BROOK STA.

8/10/73

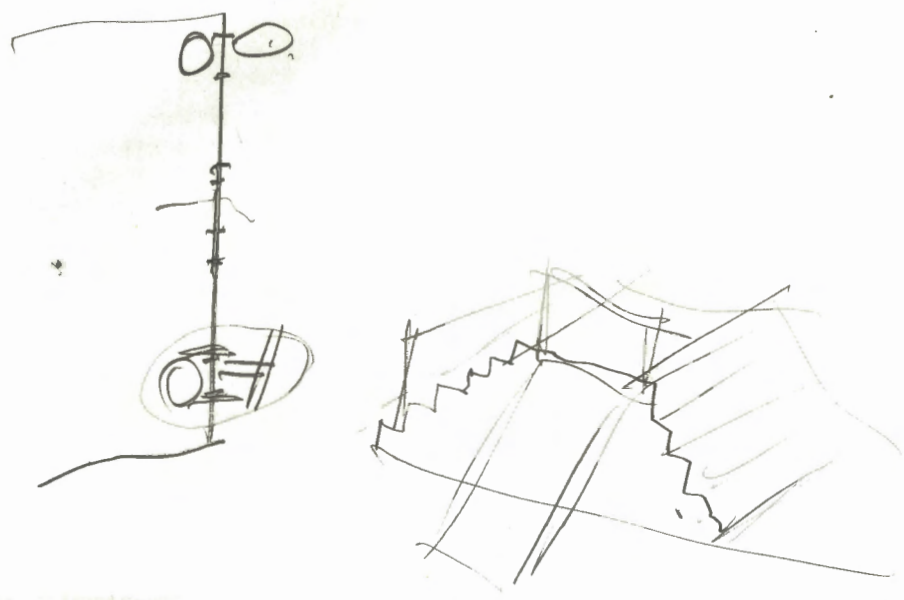
1" = 1'
16

NORTH

HANGAR STOP # 10

AID room item

Quiet Engine – Paul –
JPL Photo
OVI – ERTS at EPL – Gedney and Marks –
F-106 or 102 ? ###



1900 September 20, 1973

MEMORANDUM

TO: 1003/Edward A. Richley

FROM: 1900/Hangar Exhibits Chairman

SUBJECT: Disposition of Exhibits

Ames had an obligation for the 15th Anniversary and find it necessary to remove the medical exhibit, which demonstrates heart beat, pulse rate, and so forth, along with the Jupiter exhibit immediately after the Inspection is over. Present plans call for removal on Saturday morning, September 22, 1973. Ames also plans to remove the U2 airplane so that it can return to Wallops to continue its flight program.

Langley also indicated an interest to remove and return exhibits on October 1, 1973 because of prior commitments.

Headquarters is planning a 15th Anniversary dinner in early October and have made arrangements with the Johnson, Marshall, and Kennedy people to borrow certain items for this dinner. I'm not sure which models they'll use but it will probably be the nicer ones.

The remaining items are to be available after the open house on September 30, 1973 with removal as rapidly as convenient.

One further request came from the Johnson Space Center to remove two Earth Resources exhibits, located in the Ad Building Auditorium for shipment to Wyoming.

In addition, the 1/2 scale ERTS model is to be shipped to Pennsylvania on September 22, 1973.

James J. Modarelli

1900:JJM:bak 9-20-73

RECORD COPY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D.C. 20546

REPLY TO
ATTN OF: FAE

September 24, 1973

Mr. James Modarelli
Chief, Management Services
Division
Management Directorate
Lewis Research Center
21000 Brookpark Road
Cleveland, OH 44135

Dear Jim:

Thanks for offering to help arrange the shipment of the items on the list attached, for the NASA anniversary dinner here on October 4. I suppose the best way to ship is by exclusive household van, to assure straight-through shipment and on-time delivery.

Most efficient is to ship direct to the Washington-Hilton Hotel, Florida and Connecticut Ave., NW (delivery to Columbia Road loading dock) provided shipment is positively timed for delivery no later than mid-morning Thursday, October 4. If this can't be done, maybe it can arrive at the NASA Warehouse, 1411 South Fern St., Arlington, Virginia, on Wednesday and we can hold the loaded truck overnight to unload at the Hilton next morning. In any case, John Frisina from Headquarters Transportation will be in touch with Al Pagliuco on details.

Owning Centers have given me permission to divert these items.

Sincerely,

Alex P. Nagy
Associate Director
Planning and Media Development
Office of Public Affairs

Neal Stg- will deliver between 8 & 10 at Hotel

cc: DHB-41/JFrisina
GHoy/LeRC; FRC; ARC; JSC;
KSC; LaRC; MSFC; Wallops

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

July 10, 1973

REPLY TO ATTN OF: 1010

MEMORANDUM

TO: Addressees

FROM: 1010/General Chairman, 1973 Inspection

SUBJECT: 1973 Lewis Inspection: September 19, 20, 21

Invitations to the 1973 Lewis Inspection, "Technology in the Service of Man" have now been issued to about 7000 leaders of government, business and industry, labor, education, and the professions with an expectation of 1500 acceptances for September 19, 20, and 21. If we are overwhelmed, we anticipate adding September 18, -or even September 17 or September 24. Plan accordingly.

Rehearsals at tour stops are scheduled as follows. Stop organizers and their co-workers are urged to be well prepared so that changes and further rehearsals will be a minimum.

Tuesday, September 4

9:30 a.m. - Stop 1 - Quieting the Fleet
11:00 a.m. - Stop 2 - Cleaner Skies
1:30 p.m. - Stop 3 - Powered Lift
3:00 p.m. - Stop 4 - Big Boost for Rockets

Wednesday, September 5

9:30 a.m. - Stop 5 - Space Electronics Technology
11:00 a.m. - Stop 6 - Clean Energy
1:30 p.m. - Stop 7 - Materials for Man
3:00 p.m. - Stop 8 - The Impact of Wear

Thursday, September 6

9:30 a.m. - Stop 9 - Servants in Space

If there is any problem with this time-table, please let me know immediately.

Final run-throughs are expected to be scheduled in the time period September 10 to 12; please save these dates.

Walter T. Olson

Addressees:

0100/Bruce T. Lundin
0100/Bernard Lubarsky
0100/Henry C. Barnett
7000/James F. Connors
0110/E. J. Manganiello
9000/Edmund R. Jonash
1003/Edward A. Richley
1900/James J. Modarelli
1013/Hugh W. Harris
1960/John M. Powell
1000/Arthur R. Wycoff, Jr.
7221/Donald R. Thoennes
7013/Daniel S. Prok

2530/Earl W. Conrad (1)
2132/Robert E. Jones (2)
2520/Roger W. Luidens (3)
9500/Howard W. Douglass (4)
3300/Edward W. Otto (5)
5100/Louis Rosenblum (6)
5500/John C. Freche (7)
2610/Robert L. Johnson (8)
5420/ Herman Mark (9)

July 12, 1973

1010

MEMORANDUM

TO: 0100/Director

FROM: 1010/General Chairman, 1973 Lewis Inspection

SUBJECT: 1973 Lewis Inspection

Here are some notes to accompany 9 viewgraphs reviewing 1973 Lewis Inspection. The viewgraphs are otherwise self-explanatory.

Viewgraph 1 - Title and Statement

We have not labeled the program "Inspection" in our outside correspondence.

Viewgraph 2 - Invitees

A more detailed summary is attached. NASA Congressional liaison (R. V. Lottman) will convey congressional invitations; all others (6800+, now) have been mailed. NASA Industrial Affairs is examining our list of 50 labor leaders for possible additional suggestions to us. NASA AA for Administration (W. Lilly) has our list of OMB invitees for personal follow-up. I plan to provide Jackson, Low, and Fletcher with a few selected names with a view that they might want to invite or host them personally. I've asked for our Convair and two other NASA aircraft to be reserved for possible special trips.

We anticipate 500 guests daily. If overwhelmed, we would use September 18, or even September 17 or 24.

Viewgraph 3 - Mailings

Samples attached. On schedule.

Viewgraphs 4,5 - Schedule

We will bus 9 groups among 9 tour stops, with opening session, lunch, and closing social hour in common.

We bus from motels in morning.

One or more groups will be arranged by protocol.

A $5 fee at registration covers lunch, coffee breaks, and social hour.

Viewgraph 6 - Materials

A typical stop; all 9 will generally conform: comfortable, but not opulent. Presentations will be informative, but not overtly promotional.

Viewgraph 7 - NASA Exhibits

Hangar is 275' x 150' with exhibits contributed by each Center and several Headquarters Offices to show mission and achievements of each.

Viewgraph 8 - Employees Day

Supervisors Club will be volunteer hosts. Technical Divisions must volunteer speakers for 5 minute versions.

Viewgraph 9 - Open Houses

Possibly as many as 10,000 to 12,000 people daily. Hangar is "surge tank", with shuttle buses for DEB parking on one side, shuttle buses for touring among 4 locations on other side. Volunteer organization and staffing for 2 shifts daily requires 8 coordinators, 40 speakers, 80 bus guides, 60 building guides, 24 hangar guides, 8 bus starters, and 40 alternates for "no shows".

Further Information

May 14, 1973 memo to RD-M/Edwin C. Kilgore gave cost estimate of 16,240 professional man-hours and 23,730 support man-hours (at $10 and $5 respectively, that's $281,050 labor), plus $75,200 in materials, supplies, and contracts; (total: $356,250). Most purchase requests are in and total about $70,000; so we're on-budget with dollars.

Walter T. Olson

Attachments

cc:
Inspection Files

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

August 23, 1973

REPLY TO ATTN OF: 1900 M.S. 5-5

mailed to desk

TO:

FROM: Chairman, Hangar Exhibit Area

SUBJECT: Lewis Inspection Participation

Attached is an interim floor plan layout of the Lewis Hangar. It reflects the latest information available to us and is obviously subject to change until we receive final decisions on exhibit contributions from all participants.

Your comments and suggestions are solicited. We would appreciate your individual floor plan to scale and answers to the questions listed below not later than August 29. Please indicate on the floor plan which exhibits are single and which are double-faced.

(a) Expected shipping date
(b) Anticipated arrival date
(c) Shipper's name and Government Bill of Lading Number
(d) Names of personnel to assist in exhibit setup
(e) Personnel arrival date, flight number, etc.
(f) Motel requirements
(g) Estimate total man-hours for setup
(h) Number of man-hours Lewis is expected to provide
(i) Recommended location of electrical service supply line(s)
(j) Amperage requirements
(k) Other

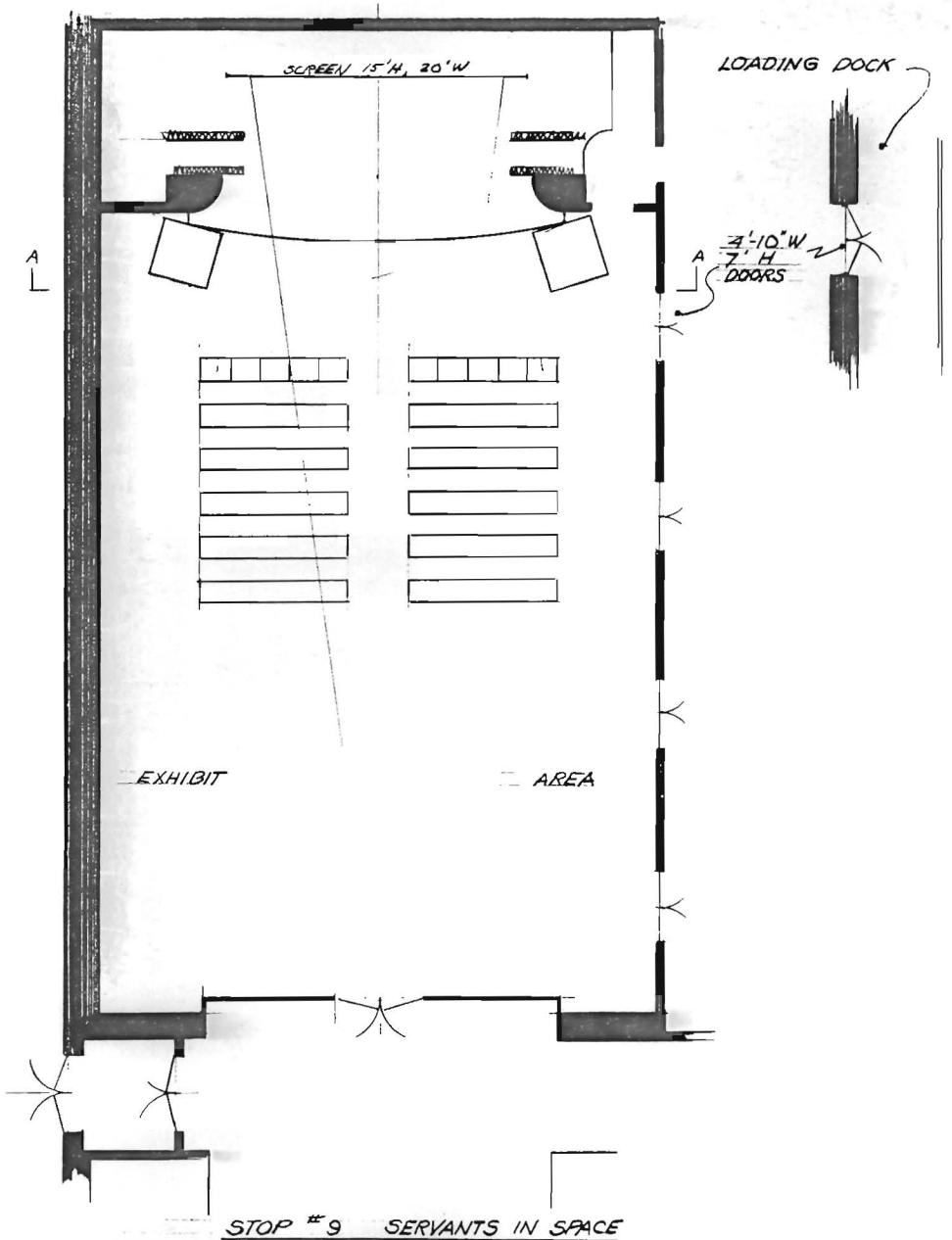
In addition to electrical service to your area, Lewis will supply a triangular sign to be suspended 12 to 15 feet over each Center's area. This sign will measure 8 feet on a side by 20 inches high and will include the Center's title and location.

We are looking forward to working with you. Please let us know if we can be of additional assistance.

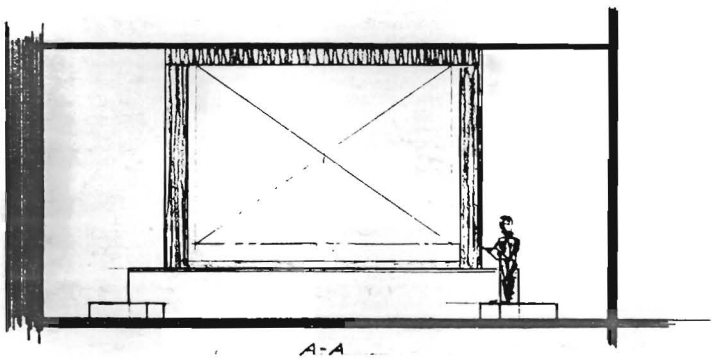
James J. Modarelli

Inspection 1973

C-73-3475	Wallops Station	Joseph E. Robbins	804-824-2201
C-73-3416 3474 3477	Johnson Space Center	Charles Biggs	713-483-4241
C-73-3472	Goddard Space Flight Center	George Coletto	301-982-4955
C-73-3426	Kennedy Space Center	Paul Gauger	305-867-5496
C-73-3415 3422 3423 3479	Ames Research Center	Fred Styles	415-965-5105
C-73-3424	Flight Research Center	Ralph B. Jackson	805-258-2221
C-73-3411	NASA Headquarters (Exhibit prepared by Jet Propulsion Lab for NASA Headquarters (Mars mosaic globe, (one of two) prepared by JPL. The Lewis Research Center Globe is not available since it will become part of a permanent built in exhibit, the other globe is JPL's.)	Al Nagy	202-755-3345
C-73-3425 3471 3476	Marshall Space Flight Center	Tom Andrews	205-453-0037
C-73-3473	Lewis Research Center This temporary display and others from Lewis utilized working research hardware will not be available.	Dr. Walter T. Olson	
C-73-3419 3420	Standard NASA traveling exhibits with crates. Contact Al Nagy for information on other items in the NASA exhibit inventory.		
C-73-3417	Langley Research Center	Axel Mattson	703-827-2932



STOP #9 SERVANTS IN SPACE
AD. BUILDING AUDITORIUM
1/8"=1' R.S. 6-8-73



A-A

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: 7013

August 24, 1973

MEMORANDUM

TO: 7000/Director, Technical Services
7000/Associate Director, Technical Services

FROM: 7013/Technical Services Coordination Office

SUBJECT: 1973 Inspection "Technology in the Service of Man"

In general all inspection stops are being assembled without any major problems, however the electrical and carpentry work are the pacing items.

The electrical work has lagged due to late deliveries of necessary fixtures, etc. Steps have been taken to alleviate this problem, substitutions of materials have been made and procurement is searching the market for other sources of required fixtures.

The carpentry work is being accomplished as manpower permits. The use of mechanic types assisting the carpenters and overtime should be enough to overcome the mountain of carpentry work on schedule.

The sky lights in ERB are in the process of being covered and all the painting in ERB should be complete by August 27, 1973 morning. The status of each inspection stop is as follows.

Stop 1 - Quieting the Fleet. 10x10 Shop All the staging and back panels have been assembled. High pressure piping for nozzles is complete. System should be ready to run August 28, 1973. Safety permit should be issued by then. Projection booth and electrical work in progress. Sound equipment is on site and being installed. Static displays are about 50% complete.

Stop 2 - Cleaner Skies. PSL #3 and #4 All staging and back panels are assembled and in place. The combustor rig has been assembled and hydrotested, several leaks were found and repaired. It should be ready to run August 27, 1973. Safety permit should be approved by then. The 16' x 16' per million dot board is being assembled, and should be ready for installation August 27, 1973.

Stop 3 - Powered Lift. 9x15 Tunnel All staging and back panels have been assembled. The two wind tunnels are installed. The wall, doors, etc., will be painted this weekend. The landing pattern display will be hung first part of next week. The projection booth and electrical work are almost complete.

Stop 4 - Big Boost From Rockets. Zero Gravity All staging and back panels are installed. Projection booth is installed and wired. The 13' movie screen has been fabricated and installed. The Centaur is being painted and should be ready for electrical work by August 28, 1973. It should be ready to hang August 30, 1973.

Stop 5 - Space Electronics Technology. EPL All staging and back panels are installed. TV equipment and sound systems are on hand. The spacecraft has been hung, however repairs to one of the solar arrays will be necessary. Request for safety permit has been issued due to the RF signals used during the presentations.

Stop 6 - Clean Energy for a Better Life. ERB, Center All staging and back panels are installed. The title boards have been installed. The tool crib has been covered. The projection is complete. Some of the displays have been installed. There is a possibility that the turbine car will not be delivered until September 14, 1973.

Stop 7 - Materials for Man. MPL All staging and back panels are installed. All experiments are installed and are being debugged. The projection booth is complete and wired.

Stop 8 - Impact of Wear. ERB, West All staging and back panels are installed. All displays and experiments are ready for installation. The projection booth is being installed and wired. The sound system is also being installed. We expect to start Division rehearsals at this stop August 27, 1973.

Stop 9 - Servants in Space. Admin. Building Auditorium The building should be ready for our use by August 28, 1973. The sound system is being worked on and a factory representative for this equipment is due here August 27, 1973 to put system into operation. The movie screen and stage curtains are due next week. Layouts have been provided.

Stop 10 - Hangar. Two theaters are being built. The signs for each center display are due September 7, 1973. Some displays are on site. A layout has been made for the hangar.

Daniel S. Prok

cc:
7221/D. L. Thoennes
7013/D. S. Prok (Files)

7013/DSProk:knz:8/24/73

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO ATTN OF: 1003

April 4, 1973

MEMORANDUM

TO: Lewis Inspection Stop Organizers

FROM: Vice Chairman, Lewis Inspection

SUBJECT: Site Preparations for the 1973 Lewis Inspection

Your cooperation is requested in channeling all site preparation requirements through the Tech Services Building Manager for your stop. He will order all materials and equipment needed such as paint, backdrops, staging, P.A. systems, etc. Also, if you have questions about Technical Services support, the Building Manager of the stop you are concerned with should be consulted.

		Building Manager	PAX
Stop 1	10x10	F. H. Dunn	4127
Stop 2	PSL 3 & 4	H. T. Wine	8109
Stop 3	9 x 15	B. Kluchnik	8085
Stop 4	Zero G	B. Kluchnik	8085
Stop 5	8 x 6	B. Kluchnik	8085
Stop 6	ERB, CW 6-8	N. Ricciardi	6218
Stop 7	MPL	L. Herman	2298
Stop 8	ERB, West Wing	N. Ricciardi	6218
Stop 9	EPL (tentative)	A. Balazi	5241
Stop 10	Hangar	R. Kravanya	2155

Ed R.

Edward A. Richley

cc:

J. F. Connors	R. E. Jones
D. L. Thoennes	R. W. Luidens
W. T. Olson	H. W. Douglass
✓D. S. Prok	E. W. Otto
J. J. Modarelli	L. Rosenblum
J. M. Powell	J. C. Freche
E. W. Conrad	R. L. Johnson

1003:EARichley:jms 4/4/73

SHOW BUSINESS MINUTES

1:00 PM June 25, 1973

Jim Botos - All painting requirements are in the mill - except the Hangar. Waiting for 1974 budget money. Should be released the first of July. Platforms are being distributed and some are already distributed. We ordered 102 backdrops. We have all drawings from Dick Schulke. Paint is on order - white, light blue and dark blue - all latex. Rollers, pans and brushes will be available. See Al Wisniewski.

9x15 painting will be done in-house. Exterior doors will be done by contractors.

John MacLean - PR's for electrical work are being readied for 10x10. No problems with the other stops.

John Sikora - 70% complete on equipment for sound system.

Grady Speer - Work orders received from 10x10 - only 1 work order from 9x15. Prints are being held up in Ad Building.

Stop 6 - No work orders yet - had late start, but they will catch up.

Stop 4 - Going to hang up Centaur for background of stage.

Stop 10 - Apollo capsule - will try to hand Apollo parachute.

Stop 1 - 10x10 - Work orders are in.

Stop 2 - PSL 3&4 - Waiting for confirmation from B. Lundin to get prints.

Stop 3 - 9x15 - Everything moving along very well.

Stop 4 - Zero G - Polyethelene on the windows - no theater will be built - need 2 projectors or 8 slide projector.

Stop 5 - EPL - Everything going along pretty well. All equipment is locally available. Hang up satellite. Wing parts out on contract.

Stop 6 - ERB - Waiting for approval from Director. No accoustical problem.

Stop 7 - MPL - Everything going very well.

Stop 8 - C&T - Install hardware display items. Need backdrops and platforms. Need 1 projection booth.

Stop 9 - Ad. Bldg. - No displays to work on. Need 2 elevated podiums. Sky Lab and ERTS have not been finalized yet.

Stop 10 - Hangar - Making good progress on removing Block House. Floor will be patched and taken care of.

Outside Fab - All problems pretty much resolved.

Fab. Shop - no problems in Building 50.

Mach. Shop - Work that is left is minor.

All stops split amont 3 lead men. Botos needs 1 or 2 men for set up and painting. Botos will submit a copy of who is assigned to the different buildings.

Dan Prok - Procurement gets priority. Any purchase that has to be made should have the paper work going as quickly as possible because of the end of the fiscal year.

Everything should be in place the last week of August.

THE SHOW HAS TOP PRIORITY.

Minutes - Show Business Meeting - August 14, 1973

Mr. Thoennes called the meeting to order at 1:00 P.M. He handed out maps of show stops and time schedules. On September 19, 20, and 21, invited guests will be here for an inspection tour of 9 stops. There will be a bus at each of the 9 stops. If we need a 4th day for the inspection, it will be on September 18, or the 24th. On September 23, we can bring in our own guests. There will be 5-minute talks at each of the stops and all the buildings will be open. The speakers at each stop will regulate their talks by how many people are there. Picnic grounds will be open for our use. Public Open House is September 29 and 30.

We are having rehearsals with the Director and Upper Management on: September 4 - stops 1, 2, 3, 4 - September 5 - stops 5, 6, 7, 8 - September 6 - stop 9. There will be 2 stops in the morning and 2 stops in the afternoon. We have 2-1/2 weeks to get ready for the rehearsal, plus 3 weekends.

Jim Botos is trying to get all platforms and backdrops up by this weekend. Each Building Manager should go out and make sure everything is getting done. 70% of the audio equipment is finished. We are having a hard time getting all the microphones we need. We will be looking for another supplier of microphones.

Stops 2, 3, 4, 5, 6 - lighting will be delivered on August 28. The order was just placed this morning (8-14-73). Dan Prok will check on all the PRs. Stop 8 - lights were supposed to be in on August 1, but they are not in yet.

Grady Speer said all parts are fabricated and will be finished up on Monday. Building Managers - make sure the area Safety Committee approves the stops. Maybe we will need a Safety Permit. Check to see if we do.

When we order paint, it should be by requisition. We should state light blue, dark blue or white.

All staging will be covered with masonite.

Jim Botos asked us to hold off on calling him in for small cut-out items until major things have been done.

Each stop was discussed and these are the items that were mentioned:

Stop 1 - 10x10 - Electrical - 2 items cannot be delivered until August 31, so we will use a substitute. Plumbing is just about all finished. Black polyethelene will be done at the last minute so that the crane will not be put out of operation.

Stop 2 - PSL 3&4 - Water piping is done - air piping almost all done - the model is being painted and then it will be sent over to PSL. Lighting is not here.

Stop 3 - 9x15 - All model parts will be in on Thursday, August 16, and then they will start checkout. Will need liquid nitrogen trailer in another week.

Stop 4 - Zero G - Stages are pretty well finalized now. Windows are half blacked out. Centaur should be complete in about 4 days. Being painted at South 40. Then units have to be mounted back on it. We have to write a work order for hanging the Centaur. Some electrical equipment is ordered. This stop is in the worst trouble of any stop. We need some answers for lighting and shadow boxes.

Stop 5 - EPL - Everything is coming along. The model is hung and the tanks are painted. Waiting for electrical fixtures.

Stop 6 - ERB Center Section - Painters should be finished today and the back stops have to be put up. Tool crib will start to be covered this week. Sky lights will be covered shortly. Ready for exhaust fan. Lighting is a problem.

Stop 7 - MPL - Need 2 hydraulic jacks. They were due in on August 7, and have not been delivered yet. Need 220 circuit breakers and sound gear.

Stop 8 - ERB West Wing - Audio is available right away. Lighting is a problem.

Stop 9 - Ad Bldg. Aud. - Projectors will not be available for rehearsal, but will be here on September 13. For rehearsal, we will have other projectors available from around the Lab. We will get chairs from the Ad Building. Final cleanup is going on in there now. Carpet will be going in this weekend. We will order rubber cord protectors for under the carpet. By August 20, we are supposed to have a complete layout. Check on lighting requirements as to whether they need lights on during the talk or should they be shut off. The entire Ad Building will be ready by September 1. Check on materials for Ad Building. They are supposed to be here today but they are not in.

Stop 10 - Hangar - Have not started anything yet as far as setting up equipment. Painting is pretty well done. Today they are seal coating the floor (1/2 today and 1/2 Thursday). Then displays can be set up. Cords for displays have to be installed. We ordered 11 signs that will be suspended over each display. We need a work order to hang these signs. Check with Modarelli on 2 theaters for Hangar. There will be a lot of last minute things for this stop that cannot be avoided. Check on lighting also.

We have from August 14 - 31 to get things done before the rehearsal starts on September 4. We might have to use some Saturday time. We have to get the show done on time. Push and get it done. Any problems, call Don Thoennes or Dan Prok. Let Don know if any changes have to be made.

On Thursday, August 16, at 1:30 P.M., there will be a meeting with Ed Richley in room 225, Ad Building. All Building Managers should attend.

The meeting was adjourned at 1:55 P.M.

Donald L. Thoennes

Donald L. Thoennes

7221/DLThoennes:pk:8/15/73

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO ATTN OF: 7212

May 21, 1973

MEMORANDUM

TO: Technical Service On-Site Committee

FROM: 7212/Head, Engine Research & Space Power Service Section B

SUBJECT: September Inspection Briefings

I have asked the coordinators at each inspection display area to brief the Technical Services On-Site Committee and the appropriate Building Manager as to the plans of each show site.

The schedule is as follows:

Tuesday	3 PM	10x10 Shop Area
Wednesday	1 PM	PSL 3&4 Conference Room
Thursday	10 AM	8x6 Observation Room
Thursday	2 PM	EPL Andy Balazi's Office
Friday	10 AM	ERB Room
Friday	1 PM	ERB Room 214

2 pc May 30

Please attend or send an alternate.

Donald L Thoennes

Donald L. Thoennes

7212/DLThoennes:pk:5/21/73

cc:

Technical Services Manager -	Donald L. Thoennes
Technical Services Coordination Office -	Daniel S. Prok ✓
Plant Services Division -	George L. Mahnke
Test Installations Division -	Donald L. Thoennes
Facilities Operations Division -	Grady S. Speer
Fabrication Division -	Frank L. Sejhar
Equipment and Supply Division -	John C. Sikora
Electrical Consultant -	John MacLean
Service Scheduling -	John DeLargy

Elaine
(Hdqtrs. File)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: 1003

May 31, 1973

MEMORANDUM

TO: 1973 Lewis Inspection Stop Organizers

FROM: Vice Chairman, 1973 Lewis Inspection

SUBJECT: Draft of Text, Figures and Sketches

This memo is to remind those of you who have not yet submitted the first draft of your text, figures and/or sketches to the Inspection Team that it is due promptly. A number of drafts have been received and the Team is in the process of meeting with each Stop Organizer and reviewing their submittals.

At a briefing meeting with the Center Director this date, he requested that we submit to him by the first week in July, a booklet comprised of the revised drafts from each Stop. In order for us to comply with his request, it is imperative that we receive all first draft texts at once.

If any of you who have not submitted material are unable to meet with the above requirement please advise me at once.

E. A. Richley

Edward A. Richley

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: 1003

June 11, 1973

MEMORANDUM

TO: 1973 Lewis Inspection Stop Organizers

FROM: Vice Chairman, 1973 Lewis Inspection

SUBJECT: Final Draft of Stop Presentation

This memo is to remind you that the final draft of the Stop Presentation (text, figures and sketches) incorporating suggestions that were made, is due on June 29, 1973. A booklet comprising these drafts will then be given to the Director for his comments.

Hopefully this will prevent any last minute changes.

Ed Richley /SB
Edward A. Richley

cc:
All Stop Organizers
1973 Inspection Team

1973 LEWIS INSPECTION MOTION PICTURES

STOP NO.	TITLE	FILM NO. MPD	LOCATION
1	Quieting the Fleet	1376	10 x 10
2	Cleaner Skies	1377	PSL 3 & 4
3	Powered Lift	1378	9 x 15
4	Boost from Rockets	1379	Zero-G
5	Space Electronics Technology	1380	EPL
6	Energy for a Better Life	1381	ERB Center Section
7	Materials for Man	1382	MPL
8	The Impact of Wear	1383	ERB West Wing
9	Servants in Space (NASA)	1384	Ad. Bldg. (Auditorium)

STOP NUMBER 2	-	"CLEANER SKIES"
LOCATION	-	PROPULSION SYSTEMS LABORATORY 3 & 4
STOP ORGANIZER	-	ROBERT E. JONES
STOP ASSOCIATE	-	H. CALVERT
BUILDING MANAGER	-	HOWARD WINE
TECHNICAL SERVICES	-	PAUL LAISURE

DOCUMENTARY FILM

SPEAKERS -

JAMES S. FEAR
RAYMOND S. COLLADAY
EDWIN J. GRABER, JR.
JAMES D. HOLDEMAN
EDWARD J. MULARZ

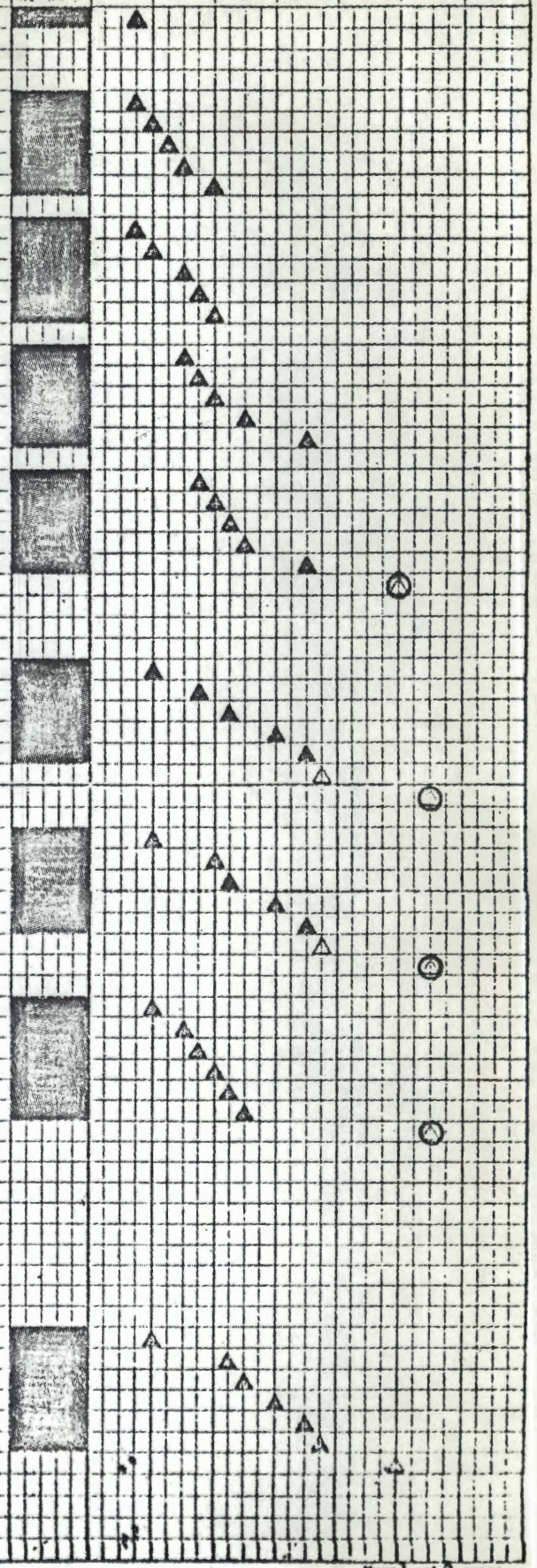
"CLEANER SKIES"

1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 2

SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE
I. RESPONSIBLE PERSONNEL ASSIGNMENTS			
II. STOP PLANNING			
1. Presentation Outline			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
2. Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
3. Presentation Text			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Division Review			
e. Approved by Inspection Hq.			
4. Revised Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
III. PARTICIPANT (SPEAKERS, ETC.) ASSIGNMENT			
IV. PRESENTATION VISUALS PREPARATION			
1. Slides			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
2. Charts			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
3. Models			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
4. Movies			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
5. Other Displays			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			



NASA-C-[illegible] (Rev. 7-71)

Organizer: R. E. Jones (8184, 60-6)
Associate: H. Calvert (8504, 60-6)
Consultant: C. Hauser (8179, 5-9)

"CLEANER SKIES"

1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 2

SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE	MAR	APR	MAY	JUN	JUL	AUG	SEP
V. GENERAL AREA PREPARATION										
1. Requirements Analysis (signs, cleanup, painting)										
a. Begun						▲				
b. Completed							△			
2. Sign Preparation										
a. Begun							▲			
b. Completed								△		
3. Painting										
a. Begun								▲		
b. Completed									△	
4. Cleanup										
a. Begun						▲				
b. Completed									△	
VI. SITE PREPARATION										
1. Exhibit Requirements Analysis Completed					▲					
2. Preliminary Safety Review Completed					△					
3. Stage and Seating										
a. Plan (Detail Sketches)										
(1) Preparation begun					▲					
(2) Submitted for Division Review					△					
(3) Approved by Division						▲				
b. Design										
(1) Stage						▲				
(2) Backdrop						△				
(3) Static Displays						△				
(4) Submitted for Division Review						△				
(5) Approved by Division						△				
(6) Submitted for Insp. Hq. Review							▲			
(7) Approved by Insp. Hq.							△			
c. Equipment Ordered (Projectors, Screens, Special Lighting, Artwork, etc.)						▲				
d. Construction/Installation										
(1) Stage							△			
(a) Begun								△		
(b) Completed										
(2) Backdrop							△			
(a) Begun								△		
(b) Completed										
(3) Static Displays							△			
(a) Begun								△		
(b) Completed										
(4) P.A. Systems									△	
(a) Begun									△	
(b) Completed										
(5) Projection Systems									△	
(a) Begun									△	
(b) Completed										
(6) Special Signs, etc.							△			
(a) Begun									△	
(b) Completed										
e. All Operating Systems Tested									△	
f. Final Safety Review Completed							△			
VII. DIVISION REHEARSAL									◎	
VIII. INSPECTION MANAGER'S REHEARSAL										◎

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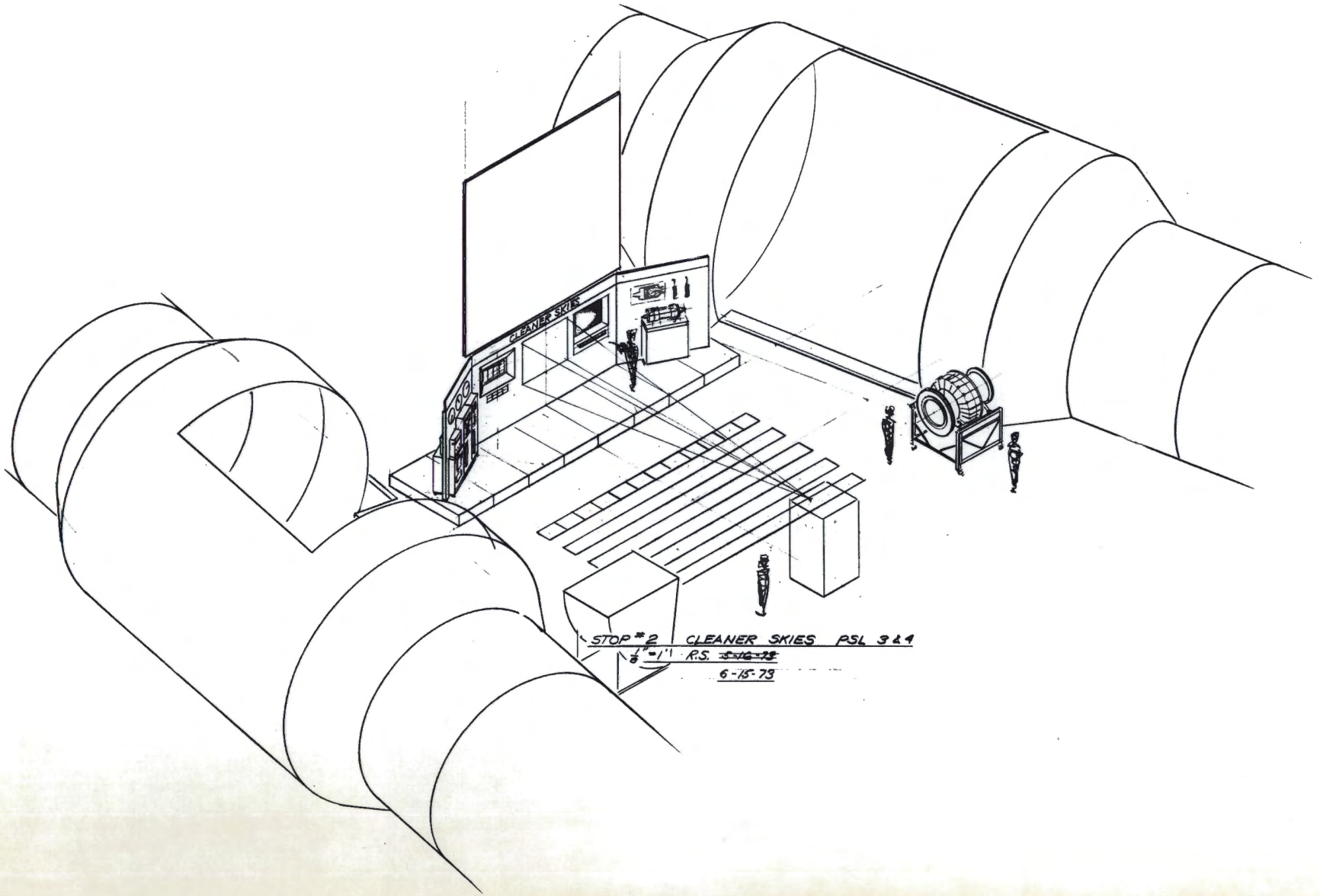
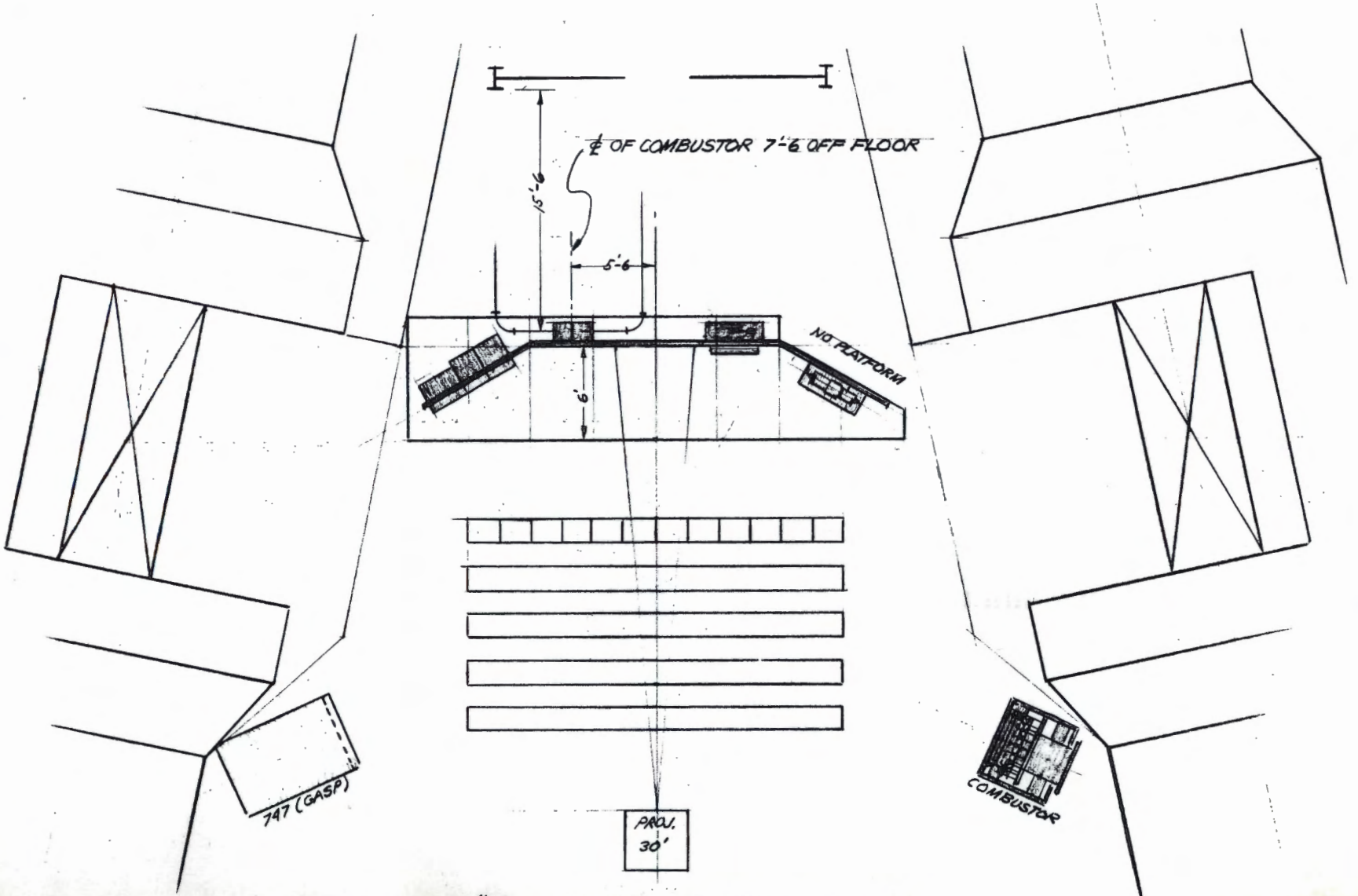


STOP # 2 CLEANER SKIES PSL 3 & 4

3/8" = 1'-1" R.S. ~~5-16-79~~

6-15-79



STOP #2 CLEANER SKIES PSL 3&4

1/8" = 1' RS ~~5-15-73~~

6-15-73

1973 Inspection and Show

Stop #2 "CLEANER SKIES"

Demonstrations during talk:

1. JT8D Engine Cutaway
2. Parts per million demonstration
3. Oxides of Nitrogen demonstration tube
4. Fuel nozzle--air assist demonstration
5. Mock-up of Global Air Sampling Instruments in 747
6. Advanced low emissions combustor technology
7. Full scale combustors
8. Combustor demonstration of low emissions technology
9. Emissions measuring instruments

Additional Static Displays

1. Air monitoring equipment and instruments (Fordyce)
2. Global Air sampling display of instruments, charts etc.

BY R.E. Jones DATE 5/24/73 SUBJECT 1973 INSPECTION & SHOW STOP #2 PSL 3&4 SHEET NO. 1 OF
CHKD. BY DATE JOB NO.

COMBUSTOR EMISSIONS DEMONSTRATION

SEE DETAIL Dwngs as to piping, combustor installation, etc.

LOCATION: LEFT-HAND SIDE of STAGE 7½' above PSL FLOOR

1. Fuel: ASTM-A from WIGGINS FARM. (JP-4 if easily available)
2. Air: SERVICE air approximate flow 3 #/sec at idle test and 7-9 #/sec at take-off test condition.
3. IDLE test conditions - ambient air temperature ~ 80°F
   - Pressure ≅ 30 psi
   - Air Flow ≅ 3 #/sec
   - ΔT ≅ 750°F - Tout ≅ 830°F
   - f = .011
   - FUEL FLOW ≅ .033 #/sec
   - Fuel nozzle - primary fuel nozzle
   - Air Assist Air flow ≅ .03 #/sec of service air injected through secondary fuel nozzle
   - Air Assist pressure ≅ 60 psi at fuel nozzle.
4. TAKE-OFF test conditions - ambient air temperature ~ 80°F
   - Pressure ≅ 70 to 90 psi
   - Air Flow ≅ 7 to 9 #/sec
   - ΔT ≅ 1200°F Tout ≅ 1280°F
   - f ≅ .015
   - Fuel Flow ≅ .135 lb/sec
   - Fuel Nozzle - secondary
   - Water flow ≅ .15 lb/sec @ ~ 100 psig
5. Test Sequence
   - A. Establish Idle air flow and pressure
   - B. Ignite Combustor
   - C. Establish IDLE EMISSIONS
   - D. Activate Air Assist IN SECONDARY NOZZLE hold until emissions stabilize ~ 30 sec.

COMBUSTOR EMISSIONS DEMONSTRATION.

5. E. Air to secondary off - add fuel to secondary raise air flow to TAKE-OFF condition
F. ESTABLISH emissions at simulated TAKE-OFF
G. Activate water injection - establish new emissions levels ≤ 30 sec.
H. Fuel OFF - reduce air flow = 1 #/sec purge = 30 sec.
I. Air OFF.

6. GAS SAMPLING
Instrument console from SW-23
Steam traced sample line - approx 15-20'
Zero + SPAN gas bottles from SW-23.
Nitrogen purge from instruments into combustor during ignition cycles.

7. DIAL INDICATORS 0 to ? in ppm mounted above instrument console.

8. FRONT PANEL INDICATOR
CUT-OUT 10"h x 24"w } approximate.
Coordinate WORDS on panel with demonstration

SAMPLE

IDLE	+ Air Assist
TAKE-OFF	+ Water Inj.

Speaker can either push buttons to change modes.
or signals from solenoids as various modes are activated.

BY R. E. Jones DATE 6/5/73 SUBJECT 1973 Inspection & Show Stop #2 PSL 3+4 SHEET NO. ..... OF .....
CHKD. BY ..... DATE ..... JOB NO. .....

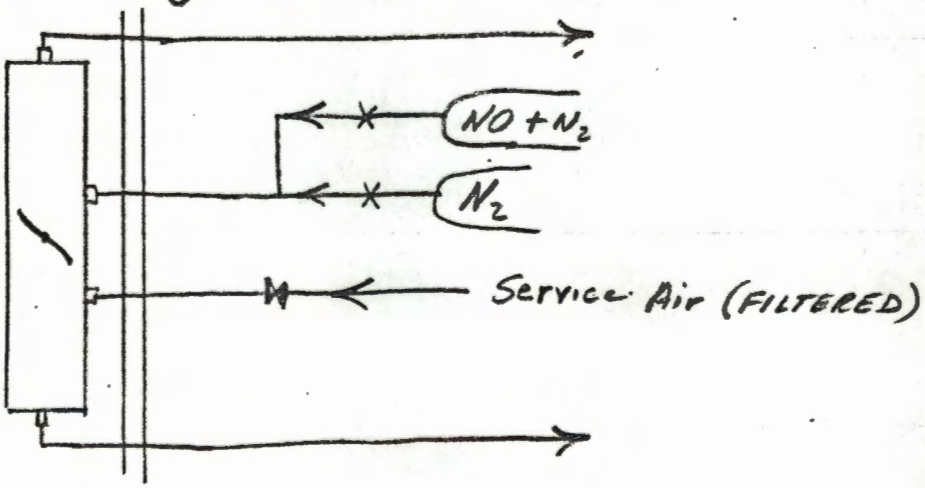
Nitric Oxide Demonstration

Location: Right-Hand side of stage

Apparatus: ~ 5" Diameter plexiglass pipe valved in middle
NO diluted with N_2
Air, N_2 for purge

Mounting: Mount tube horizontal about 4' above floor of stage
All purge and fill lines pass through stage panels from rear - purge line exit from bldg with combustor exit pipe - Do NOT put purge into Combustor exhaust piping - Do not use common vent line from both halves of chamber

Suggested Piping Layout

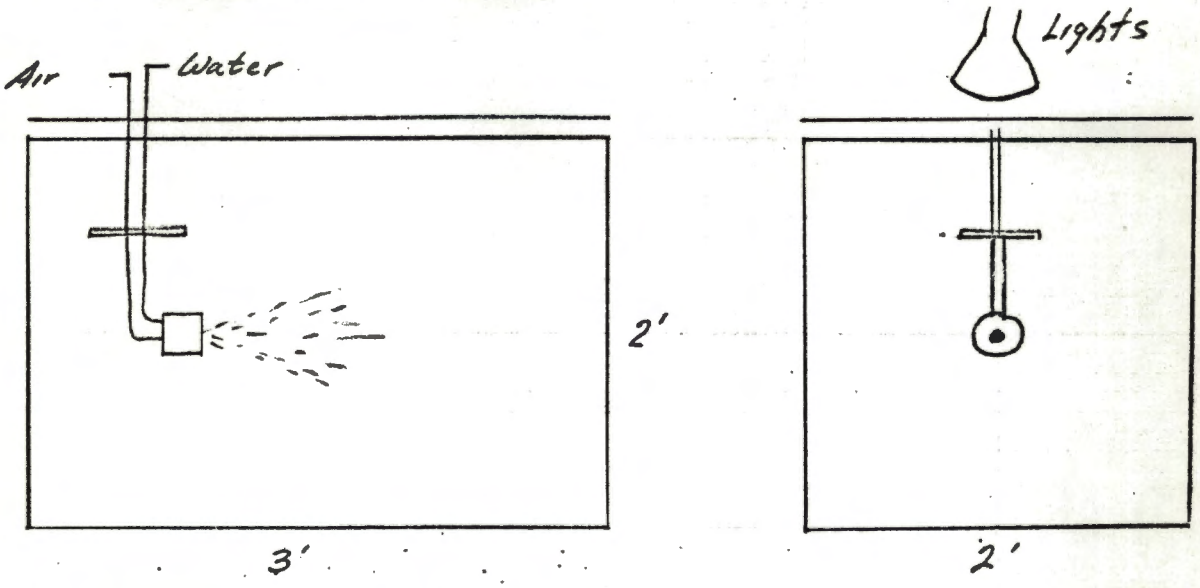


Test Procedure

1. With valve open purge with air for ~ 1 min.
2. Close valve - reduce air purge flow - begin N_2 purge for 1 min.
3. Stop all purge
4. Approximately 15 seconds of NO gas flow.
5. NO gas flow off. - delay of ~ 1 minute max before valve opening.
6. Open valve - obtain reaction ~ after ~ 3 min begin slow

BY R E Jones DATE 5/24 SUBJECT 1973 INSPECTION & SHOW STOP #2 PSL 3-4 SHEET NO. ____ OF ____
CHKD. BY ____ DATE ____ JOB NO. XO12533

FUEL NOZZLE DEMONSTRATION



1. Plexiglass box 2'x2'x3'
   With raised top ~ 1/2" to allow for escaping air
2. Mount air assisted fuel nozzle on box center-line
3. Paint ends, back and top - flat black
4. Leave 1 to 2" wide strip unpainted on top for illumination
5. Provide 3 (?) floodlights to illuminate spray pattern.
6. Provide water drain to bucket on floor.
7. Provide city water at city water pressure through a solenoid valve and Hoke valve - 1/4" Copper tube.
8. Proride service air through a solenoid valve and pressure regulating valve to nozzle secondary - larger filling. ~ 1/4 tube.
9. Operation: Water on to show poor spray pattern.
   admit air to improve spray pattern -
   Water - air - lights OFF.
10. Maintainance: may require wiping of front window of box between shows and minor adjustment of water or air flows between shows. Top should slide off for access.

STOP 2 R. JONES 8184

1) AIRCRAFT ENGINE EMISSIONS 40x60 CS 67563

2) OXIDATION OF NITROGEN CS 67564

3) EMISSIONS REDUCTION AT IDLE CS 67565

4) IDLE EMISSIONS REDUCTION BY AIR ASSIST CS 67566

5) SMOKE REDUCTION CS 67567

6) AIRCRAFT SMOKE REDUCTION CS 67568

7) EMISSIONS REDUCTION AT FULL POWER CS 67569

8) SWIRL-CAN CONCEPT CS 67570

9) COMPARISON OF NO, NO_2 EMISSIONS CS 67571

10) CLEAN COMBUSTOR PROGRAM CS 67572

11) GLOBAL AIR SAMPLING PROGRAM (CHART) CS 67573

12) GLOBAL AIR SAMPLING (747) CS 67574

13) GLOBAL AIR SAMPLING ROUTES (MAP) CS 67575

STOP NUMBER 3 - "POWERED LIFT"

LOCATION - 9 X 15 LOOP OF 8 X 6 SWT

STOP ORGANIZER - ROGER W. LUIDENS

STOP ASSOCIATE - C. WINZIG

BUILDING MANAGER - B. KLUCHNIK

TECHNICAL SERVICES - D. GOBLE

DOCUMENTARY FILM

SPEAKERS -

JOHN M. ABBOTT
GARY G. KELM
DAVID A. SAGERSER
DONALD C. URASEK
RICHARD J. ROELKE
EVERETT E. BAILEY

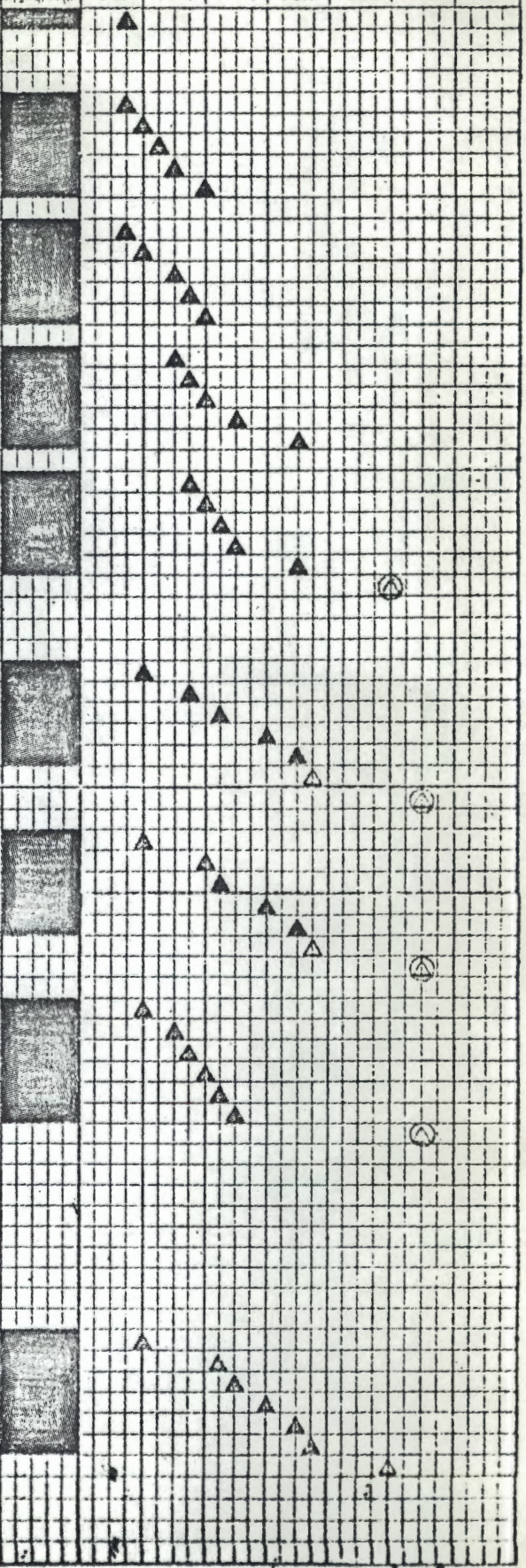
"POWERED LIFT"

1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 3

SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE
I. RESPONSIBLE PERSONNEL ASSIGNMENTS			
II. STOP PLANNING			
1. Presentation Outline			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
2. Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
3. Presentation Text			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Division Review			
e. Approved by Inspection Hq.			
4. Revised Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
III. PARTICIPANT (SPEAKERS, ETC.) ASSIGNMENT			
IV. PRESENTATION VISUALS PREPARATION			
1. Slides			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
2. Charts			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Aporoved by Inspection Hq.			
f. Ordered			
g. Completed			
3. Models			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
4. Movies			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
5. Other Displays			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			



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Organizer: R. W. Luidens (8044, 501-2)
Associate: C. Winzig (7245, 5-3)
Consultant: C. Hauser (8179, 5-9)

"POWERED LIFT"

1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 3

SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST M.H.	% COMPLETE	MAR	APR	MAY	JUN	JUL	AUG	SEP
V. GENERAL AREA PREPARATION										
1. Requirements Analysis (signs, cleanup, painting)										
a. Begun										
b. Completed										
2. Sign Preparation										
a. Begun										
b. Completed										
3. Painting										
a. Begun										
b. Completed										
4. Cleanup										
a. Begun										
b. Completed										
VI. SITE PREPARATION										
1. Exhibit Requirements Analysis Completed										
2. Preliminary Safety Review Completed										
3. Stage and Seating										
a. Plan (Detail Sketches)										
(1) Preparation begun										
(2) Submitted for Division Review										
(3) Approved by Division										
b. Design										
(1) Stage										
(2) Backdrop										
(3) Static Displays										
(4) Submitted for Division Review										
(5) Approved by Division										
(6) Submitted for Insp. Hq. Review										
(7) Approved by Insp. Hq.										
c. Equipment Ordered (Projectors, Screens, Special Lighting, Artwork, etc.)										
d. Construction/Installation										
(1) Stage										
(a) Begun										
(b) Completed										
(2) Backdrop										
(a) Begun										
(b) Completed										
(3) Static Displays										
(a) Begun										
(b) Completed										
(4) P.A. Systems										
(a) Begun										
(b) Completed										
(5) Projection Systems										
(a) Begun										
(b) Completed										
(6) Special Signs, etc.										
(a) Begun										
(b) Completed										
e. All Operating Systems Tested										
f. Final Safety Review Completed										
VII. DIVISION REHEARSAL										
VIII. INSPECTION MANAGER'S REHEARSAL										

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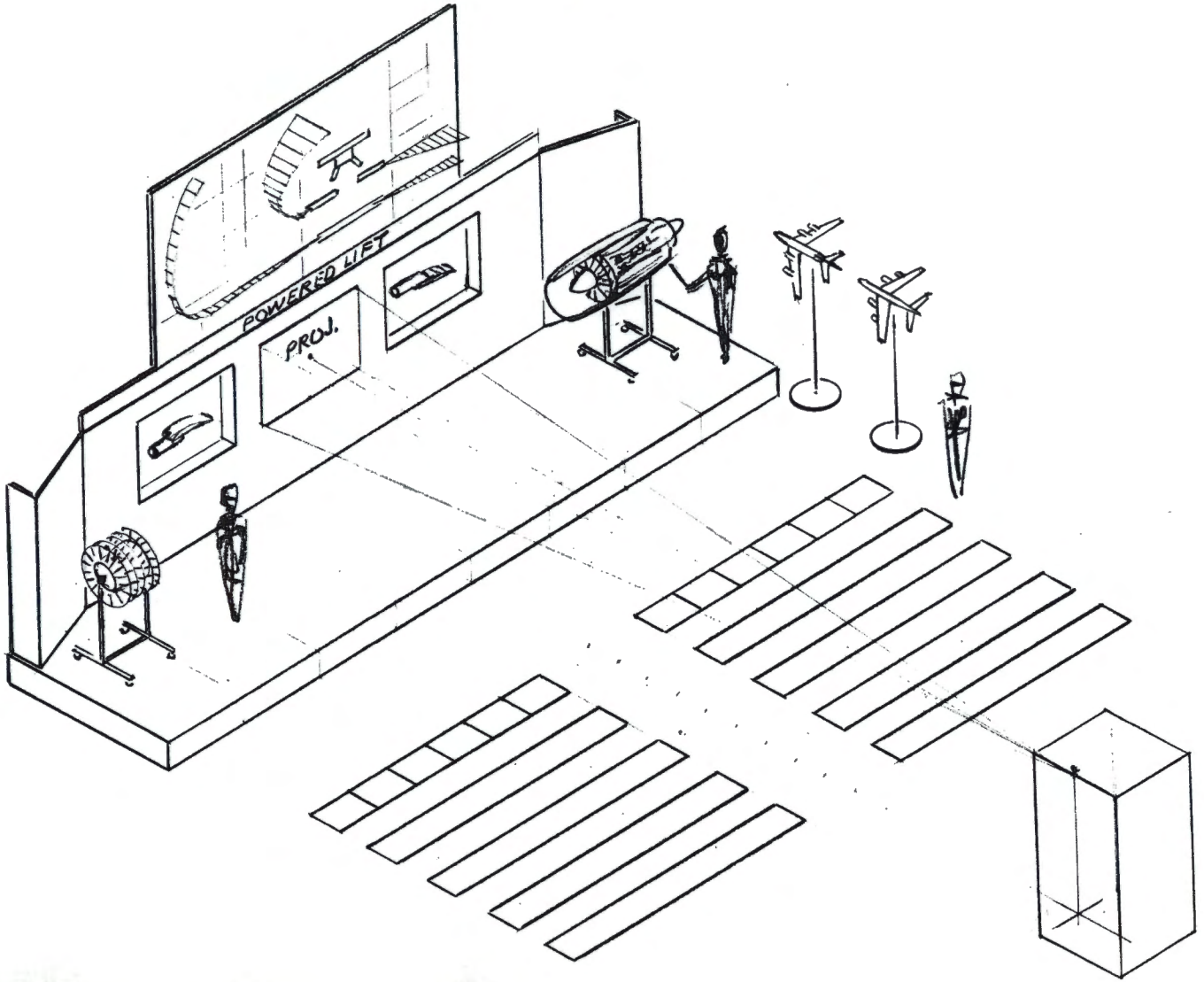
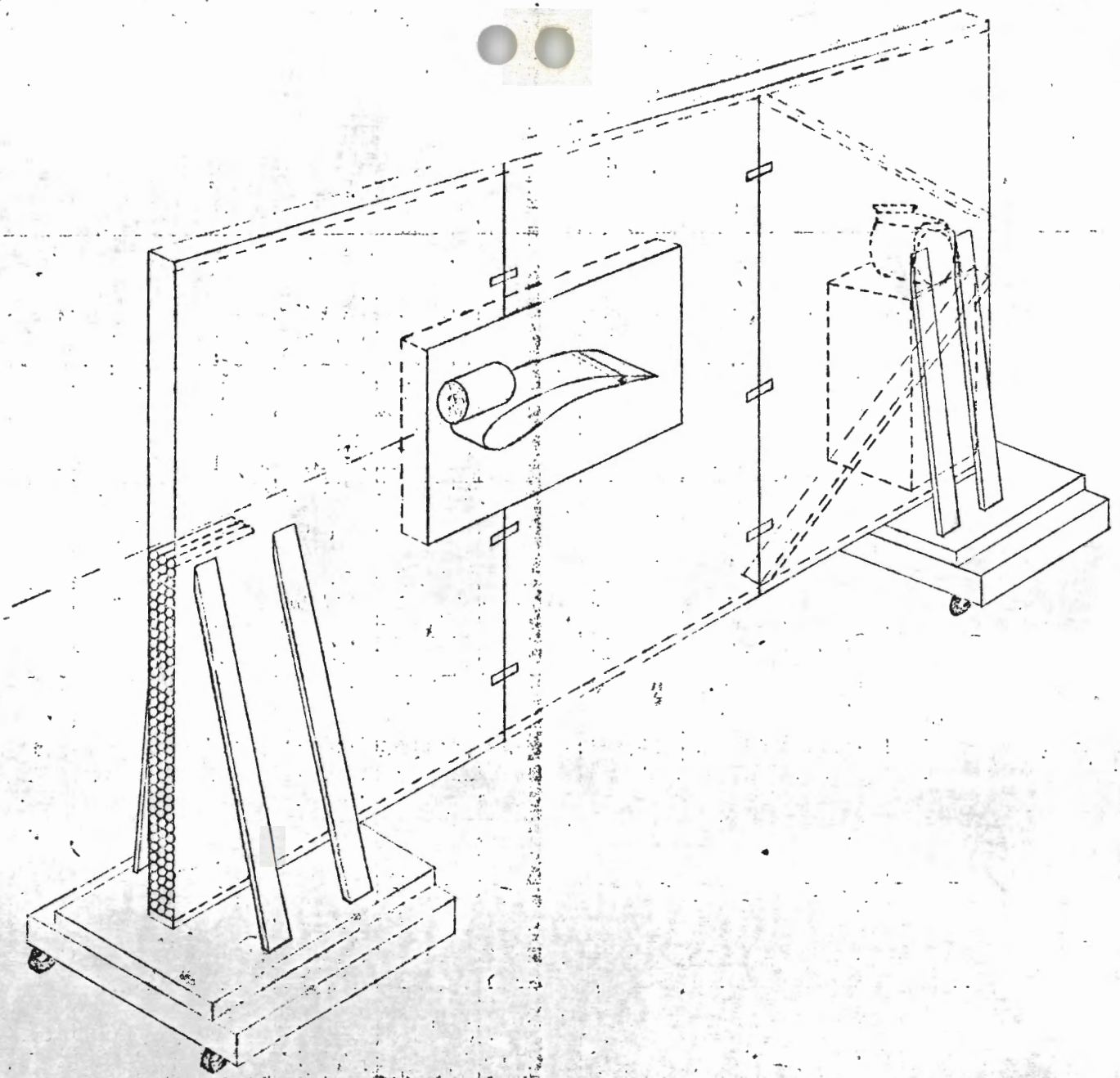


STOP #3 POWERED LIFT

9×15

1/8" = 1'

R.S. 4-25-73



8044
~~8236~~
8031

Check with Lindens
to be sure can use for
show

NOTES

(1) ALL FRAMING 2"x4"

(2) FRONT & REAR FACES COVERED WITH $\frac{5}{8}$" PLYWOOD. INTERIOR (FLOW PASSAGE) TO BE "A" GRADE.

(3) FRONT FACE "DRESSING" TO BE $\frac{1}{4}$" MASONITE COVERING $\frac{5}{8}$" PLYWOOD (TO BE ADDED LATER).

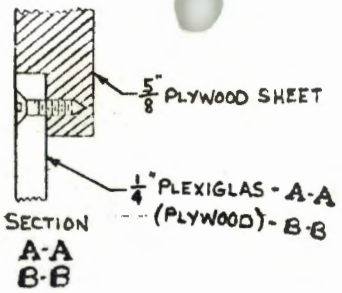
4. BUTT-JOINT PLYWOOD SHEETS WITH DOWELS TO INSURE SMOOTH (NO STEP) JOINT SURFACE - ESPECIALLY INTERIOR (FLOW PASSAGE).

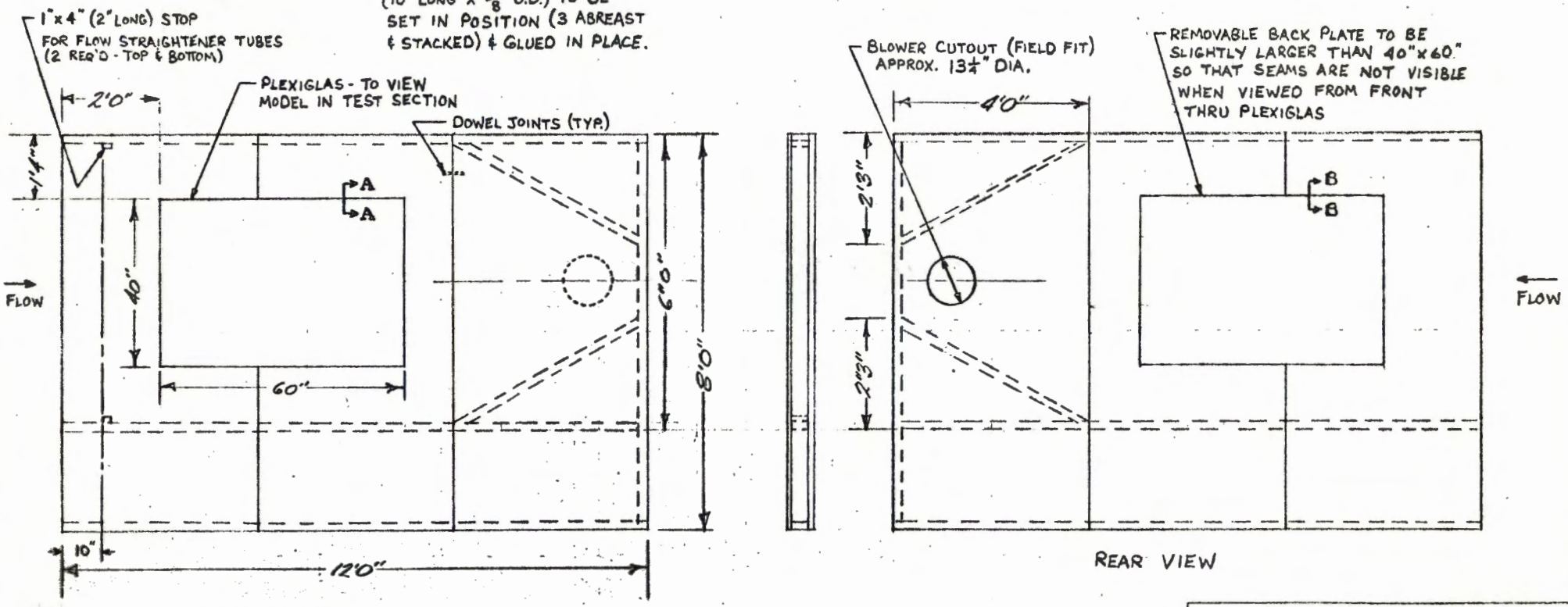
5. POSSIBLE CONSTRUCTION MODIFICATION MAY LATER BE REQUIRED - ATTACHMENT VIA SCREWS SUGGESTED.

6. FLOW STRAIGHTENER TUBES (10" LONG x $\frac{7}{8}$" O.D.) TO BE SET IN POSITION (3 ABREAST & STACKED) & GLUED IN PLACE.

7. CUTOUT & SUPPORT STAND FOR SQUIRREL-CAGE BLOWER & MOTOR TO BE FIELD FIT & CONSTRUCTED.

8. REMOVABLE BACK PLATE VIEWED SURFACE TO BE EVENTUALLY PAINTED FLAT BLACK





SMALL SCALE WIND TUNNEL		
INSPECTION STOP 3 - 9x15 "POWERED LIFT"		
RON ROSKILLY GARY KELM	4/30/73	J.O. - X012533

Have already issued a W.O to Frank Kuchta

STOP NUMBER 4 - "BIG BOOST FROM ROCKETS"

LOCATION - ZERO GRAVITY FACILITY

STOP ORGANIZER - HOWARD DOUGLASS

STOP ASSOCIATES - ROBERT KOHL, JOHN KRAMER

BUILDING MANAGER - B. KLUCHNIK

TECHNICAL SERVICES - ROY CIMBER

DOCUMENTARY FILM

SPEAKERS - TEAM 1: JOHN J. NIEBERDING
RODNEY M. KNIGHT
RAYMOND F. LACOVIC

TEAM 2: ROGER S. PALMER
DALE E. POPE
ROBERT G. ROHAL

TEAM 3: GARY D. SAGERMAN
IRVING E. SUMNER
THOM A. CONEY

TEAM 4: MURRAY M. BAILEY
WAYNE A. THOMAS
NEAL F. WINGENFELD

"BIG BOOST FROM ROCKETS"

1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 4

SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE	MAR	APR	MAY	JUN	JUL	AUG	SEP
I. RESPONSIBLE PERSONNEL ASSIGNMENTS										
II. STOP PLANNING										
1. Presentation Outline										
a. Preparation begun										
b. Submitted for Division Review										
c. Approved by Division										
d. Submitted for Inspection Hq. Review										
e. Approved by Inspection Hq.										
2. Display Sketches										
a. Preparation begun										
b. Submitted for Division Review										
c. Approved by Division										
d. Submitted for Inspection Hq. Review										
e. Approved by Inspection Hq.										
3. Presentation Text										
a. Preparation begun										
b. Submitted for Division Review										
c. Approved by Division										
d. Submitted for Division Review										
e. Approved by Inspection Hq.										
4. Revised Display Sketches										
a. Preparation begun										
b. Submitted for Division Review										
c. Approved by Division										
d. Submitted for Inspection Hq. Review										
e. Approved by Inspection Hq.										
III. PARTICIPANT (SPEAKERS, ETC.) ASSIGNMENT										
IV. PRESENTATION VISUALS PREPARATION										
1. Slides										
a. Planned										
b. Submitted for Division Review										
c. Approved by Division										
d. Submitted for Inspection Hq. Review										
e. Approved by Inspection Hq.										
f. Ordered										
g. Completed										
2. Charts										
a. Planned										
b. Submitted for Division Review										
c. Approved by Division										
d. Submitted for Inspection Hq. Review										
e. Approved by Inspection Hq.										
f. Ordered										
g. Completed										
3. Models										
a. Planned										
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c. Approved by Division										
d. Submitted for Inspection Hq. Review										
e. Approved by Inspection Hq.										
f. Ordered										
g. Completed										
4. Movies										
a. Planned										
b. Submitted for Division Review										
c. Approved by Division										
d. Submitted for Inspection Hq. Review										
e. Approved by Inspection Hq.										
f. Ordered										
g. Completed										
5. Other Displays										
a. Planned										
b. Submitted for Division Review										
c. Approved by Division										
d. Submitted for Inspection Hq. Review										
e. Approved by Inspection Hq.										
f. Ordered										
g. Completed										

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Organizer: H. Douglass (8121, 500-205)
Associate: R. Kohl (8122, 500-205)
J. Kramer (8205, 500-103)

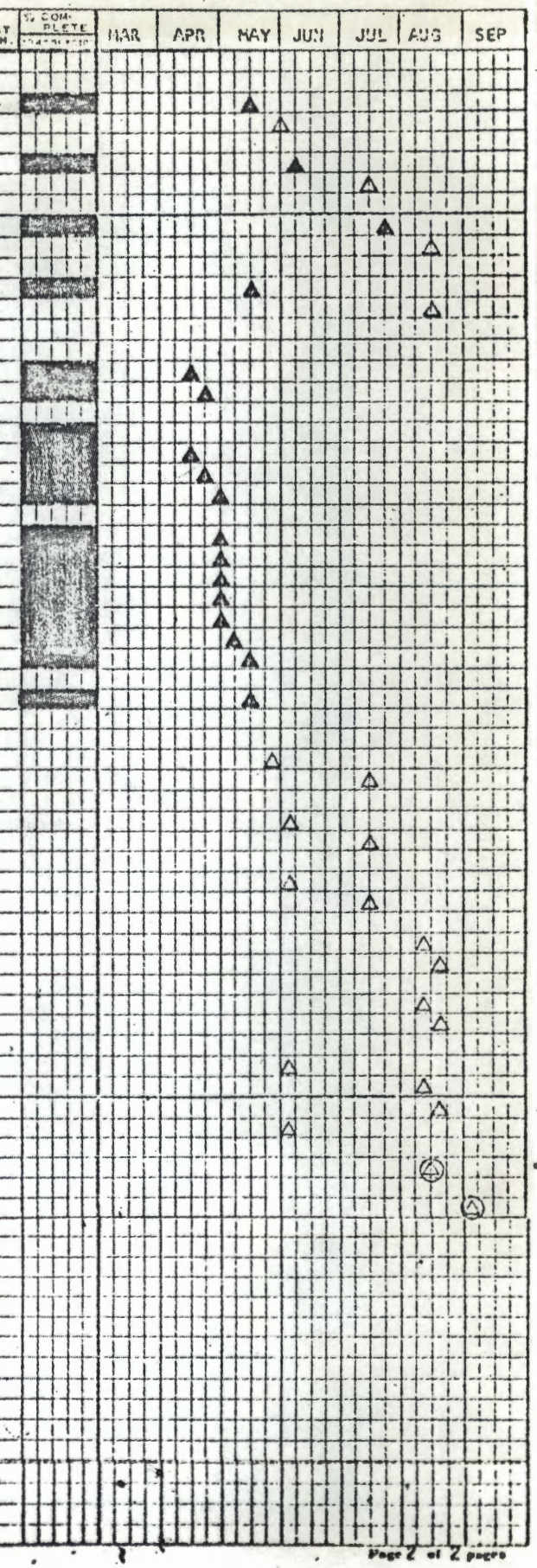
"BIG BOOST FROM ROCKETS"

1973 LEWIS INSPECTION
ACTION SCHEDULE

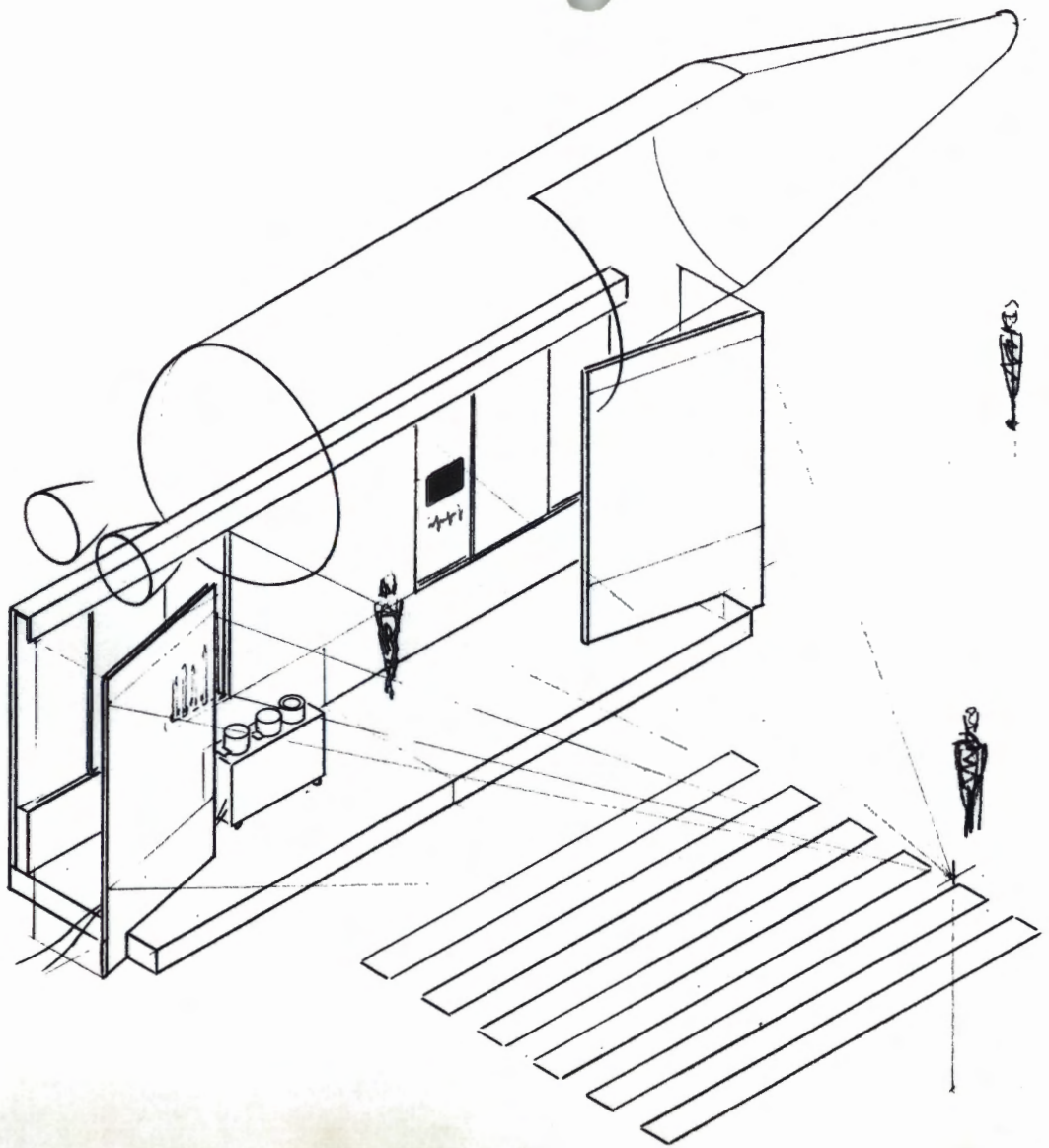
FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 4

SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST M.H.	% COMPLETE
V. GENERAL AREA PREPARATION			
1. Requirements Analysis (signs, cleanup, painting)			
a. Begun			
b. Completed			
2. Sign Preparation			
a. Begun			
b. Completed			
3. Painting			
a. Begun			
b. Completed			
4. Cleanup			
a. Begun			
b. Completed			
VI. SITE PREPARATION			
1. Exhibit Requirements Analysis Completed			
2. Preliminary Safety Review Completed			
3. Stage and Seating			
a. Plan (Detail Sketches)			
(1) Preparation begun			
(2) Submitted for Division Review			
(3) Approved by Division			
b. Design			
(1) Stage			
(2) Backdrop			
(3) Static Displays			
(4) Submitted for Division Review			
(5) Approved by Division			
(6) Submitted for Insp. Hq. Review			
(7) Approved by Insp. Hq.			
c. Equipment Ordered (Projectors, Screens, Special Lighting, Artwork, etc.)			
d. Construction/Installation			
(1) Stage			
(a) Begun			
(b) Completed			
(2) Backdrop			
(a) Begun			
(b) Completed			
(3) Static Displays			
(a) Begun			
(b) Completed			
(4) P.A. Systems			
(a) Begun			
(b) Completed			
(5) Projection Systems			
(a) Begun			
(b) Completed			
(6) Special Signs, etc.			
(a) Begun			
(b) Completed			
e. All Operating Systems Tested			
f. Final Safety Review Completed			
VII. DIVISION REHEARSAL			
VIII. INSPECTION MANAGER'S REHEARSAL			

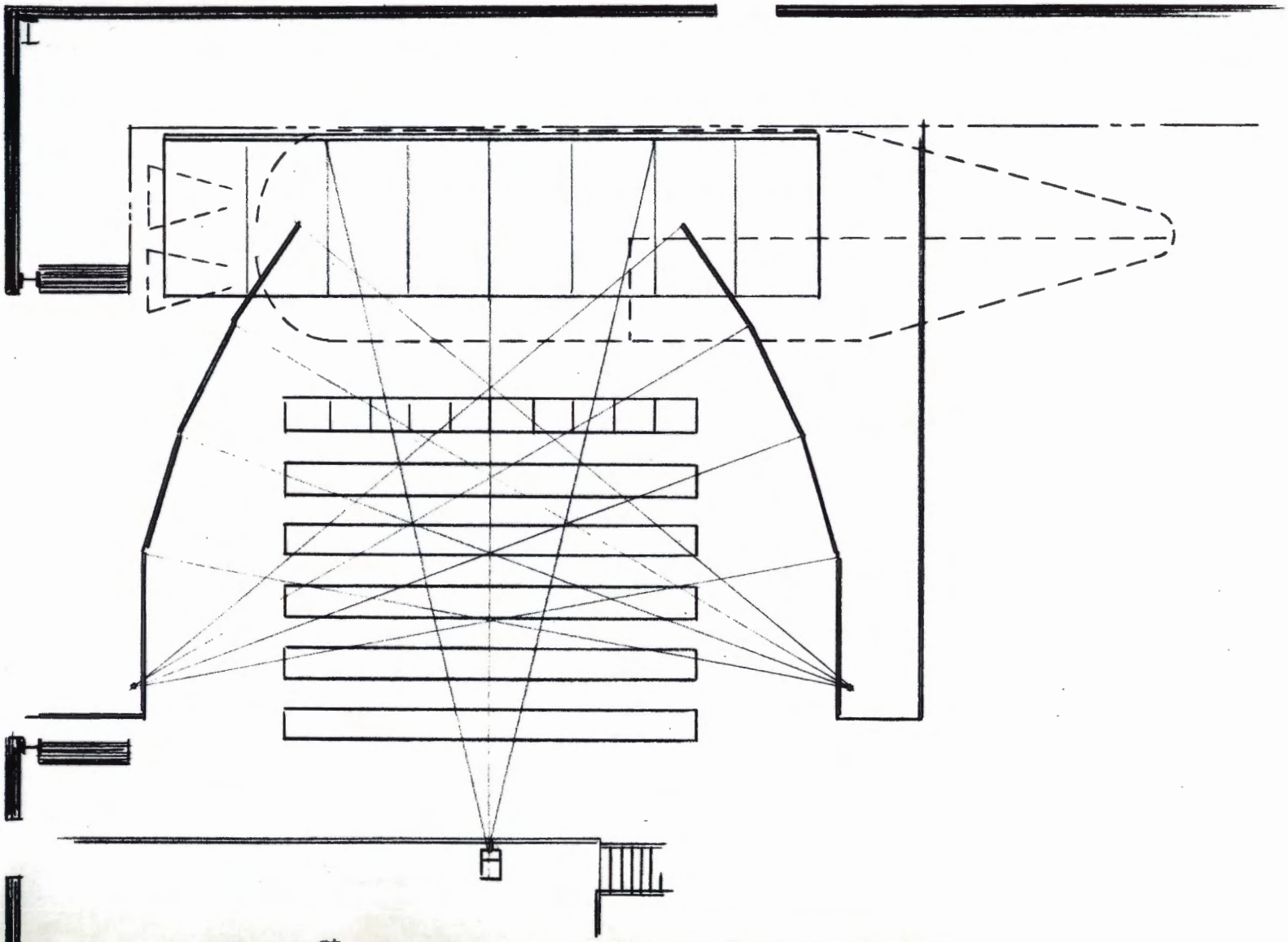


NASA-C-79.e (Rev. 7-71)



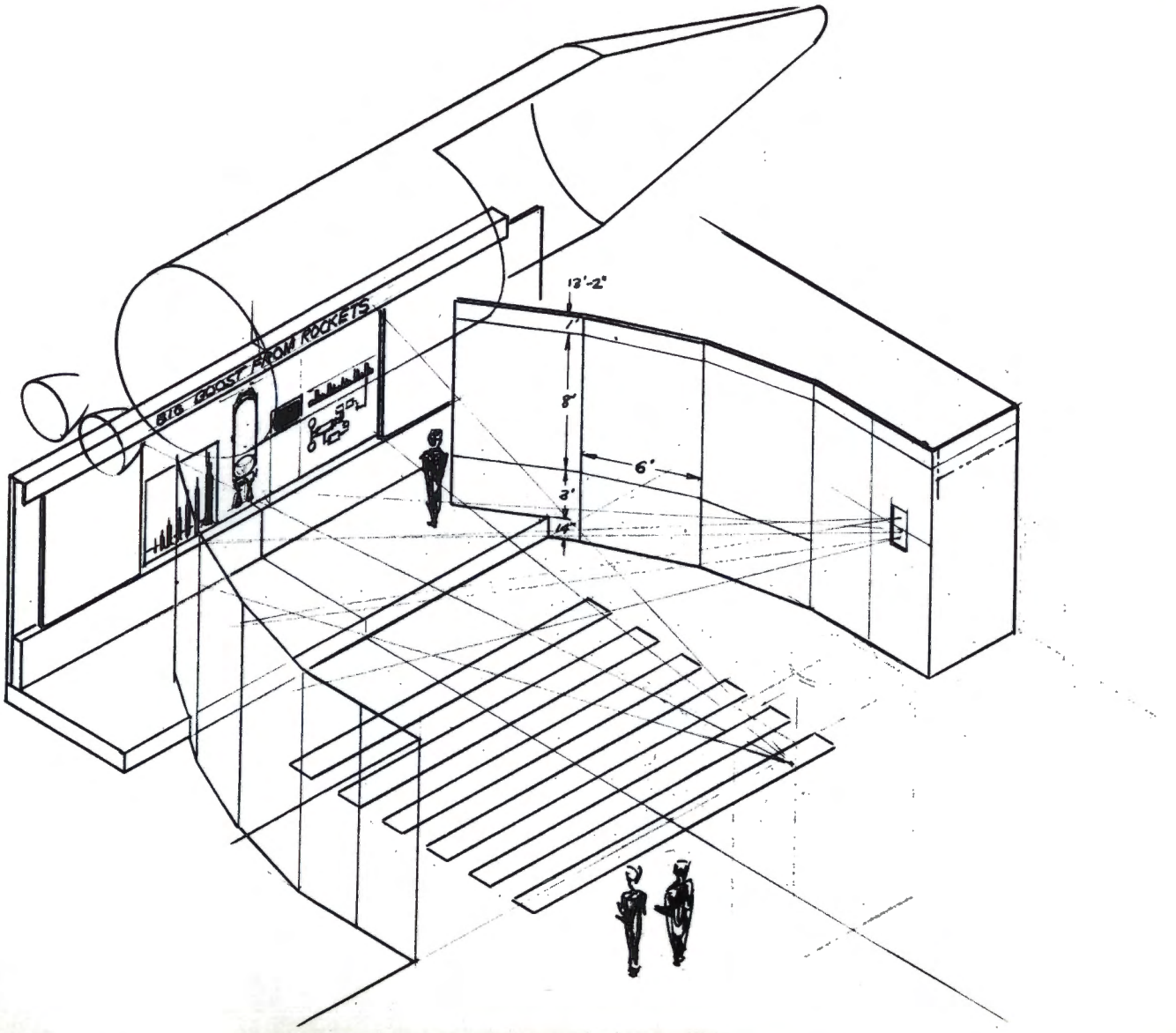
STOP #4 BIG BOOST FROM ROCKETS

ZERO-G 1/8" = 1' R.S. ~~6-13-73~~ 6-26-73



STOP # 4 BIG BOOST FROM ROCKETS

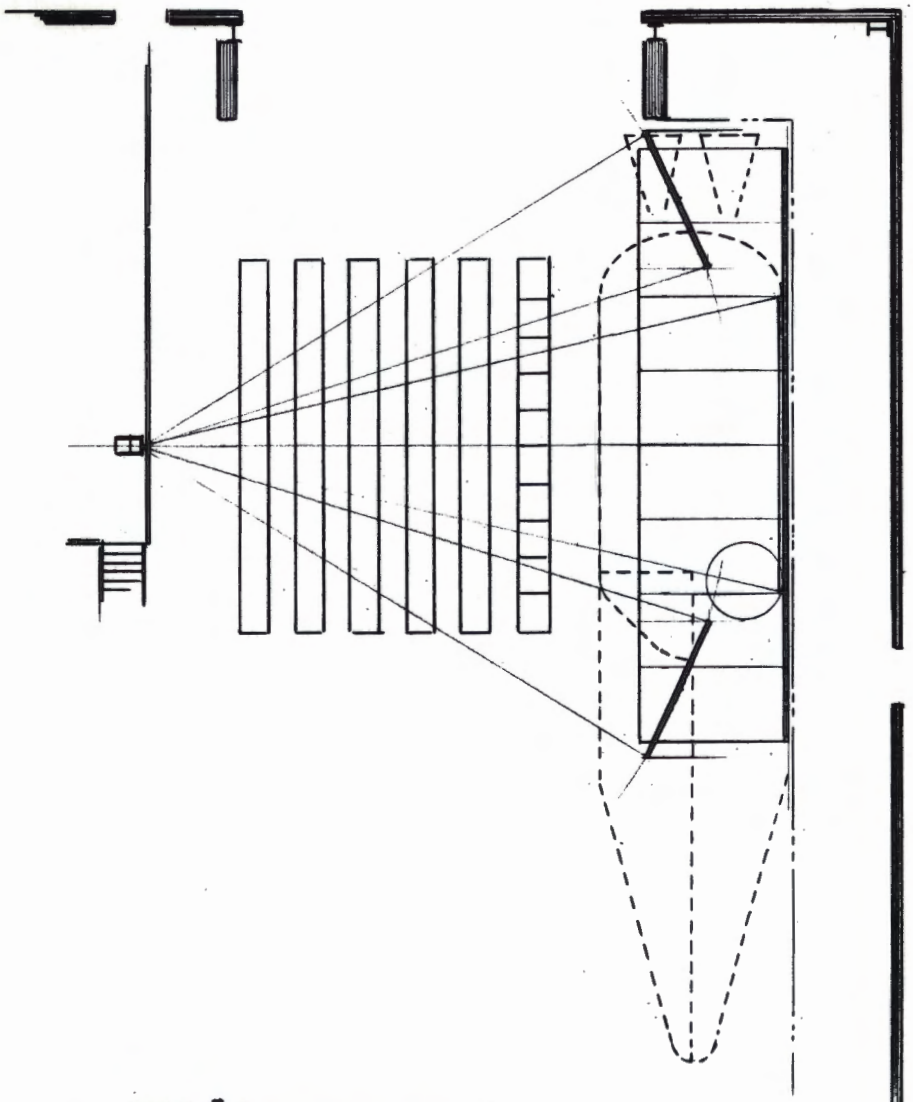
ZERO - G $\frac{1}{8}$" = 1' R.S. 6-26-73



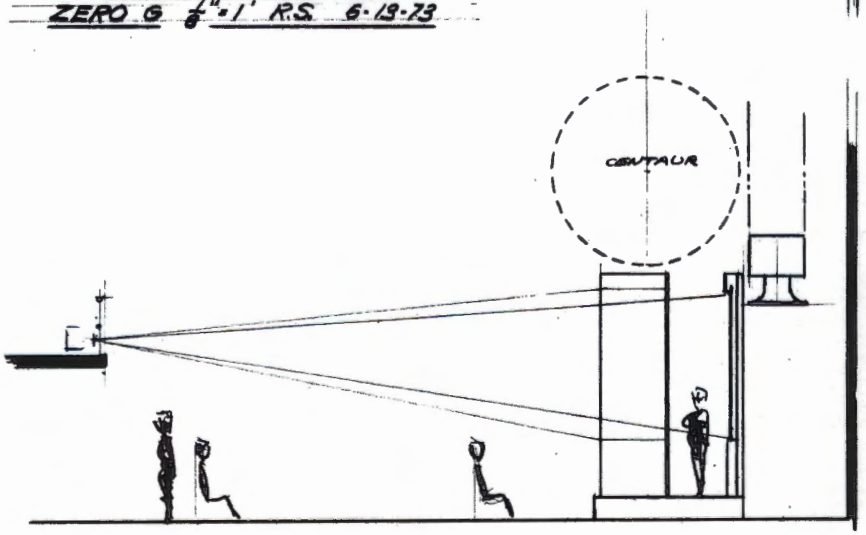
STOP #4 BIG BOOST FROM ROCKETS

ZERO-G 3/8" = 1' R.S. ~~5-31-73~~

6-2-73



STOP #4
BIG BOOST FROM ROCKETS
ZERO G 1/8" = 1' R.S. 6-13-73



STOP NUMBER 5 - "SPACE ELECTRONICS TECHNOLOGY"

LOCATION - ELECTRIC PROPULSION LABORATORY

STOP ORGANIZER - EDWARD OTTO

STOP ASSOCIATE - EVERETT HURST

BUILDING MANAGER - D. THOENNES

TECHNICAL SERVICES - F. BALDIZZI

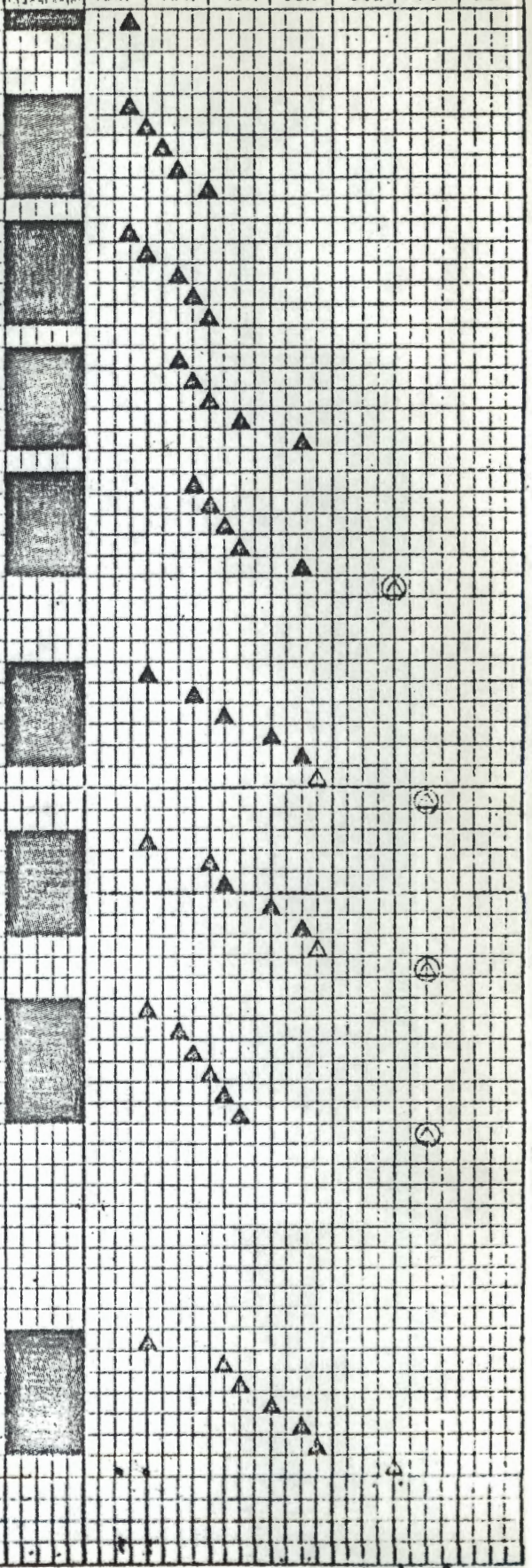
DOCUMENTARY FILM

SPEAKERS -
DAVID L. WRIGHT
BRUCE E. LEROY
JAMES A. BURKHART
KARL F. READER
GERALD F. HEIN
JAMES E. CAKE
MICHAEL D. RICHARDSON
ALBERT J. WEIGAND

"SPACE ELECTRONICS TECHNOLOGY" 1973 LEWIS INSPECTION ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 5 SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE
I. RESPONSIBLE PERSONNEL ASSIGNMENTS			
II. STOP PLANNING			
1. Presentation Outline			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
2. Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
3. Presentation Text			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Division Review			
e. Approved by Inspection Hq.			
4. Revised Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
III. PARTICIPANT (SPEAKERS, ETC.) ASSIGNMENT			
IV. PRESENTATION VISUALS PREPARATION			
1. Slides			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
2. Charts			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
3. Models			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
4. Movies			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
5. Other Displays			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			



NASA-C-29.4 (Rev. 7-71)

Organizer: E. Otto (6175, 54-1)
Associate: E. Hurst (4110, 54-1)
Consultants: E. Miller/Alexovich (8159, 54-5)

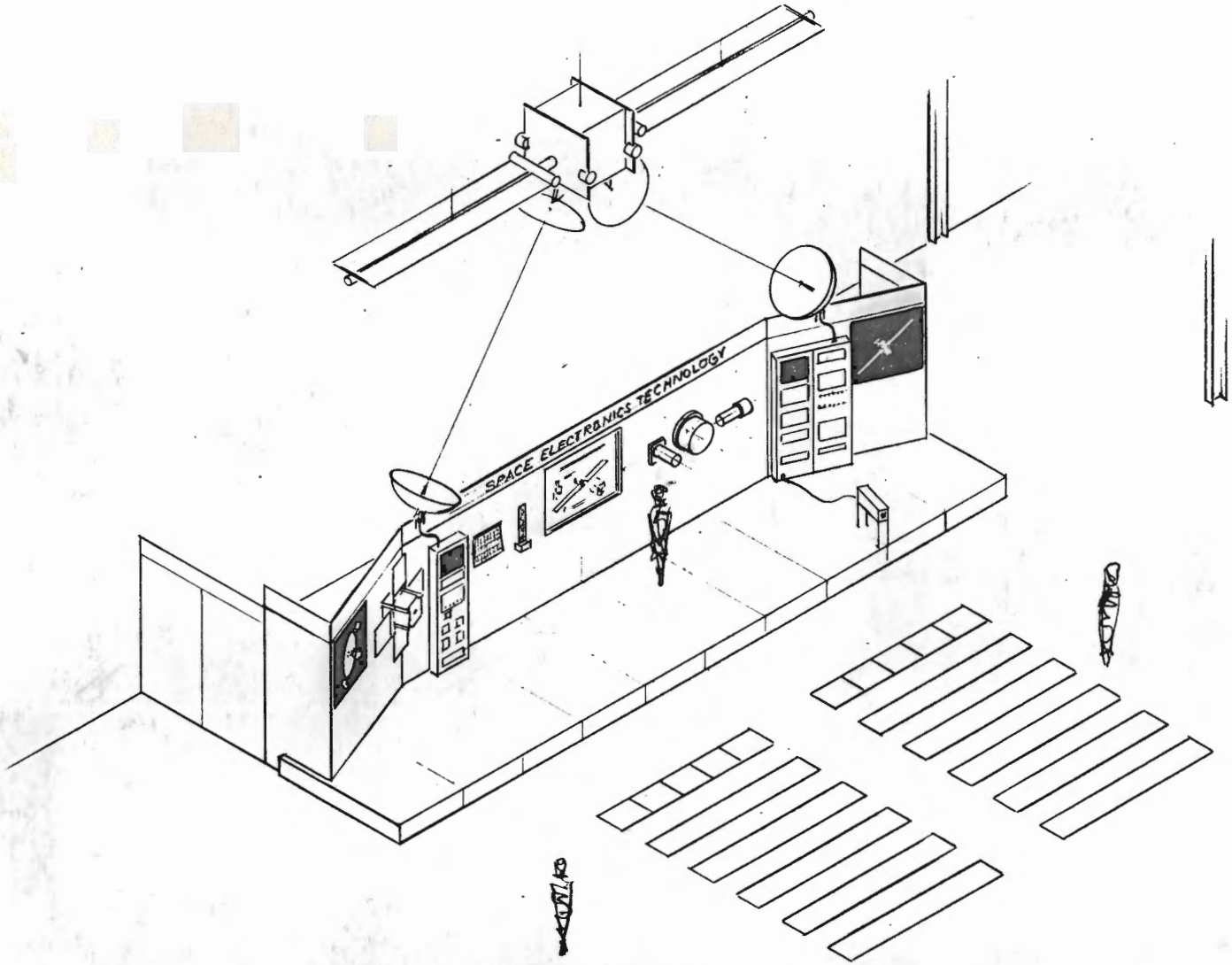
"SPACE ELECTRONICS TECHNOLOGY" 1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 5

SCHEDULE DATE: JULY 30, 1973

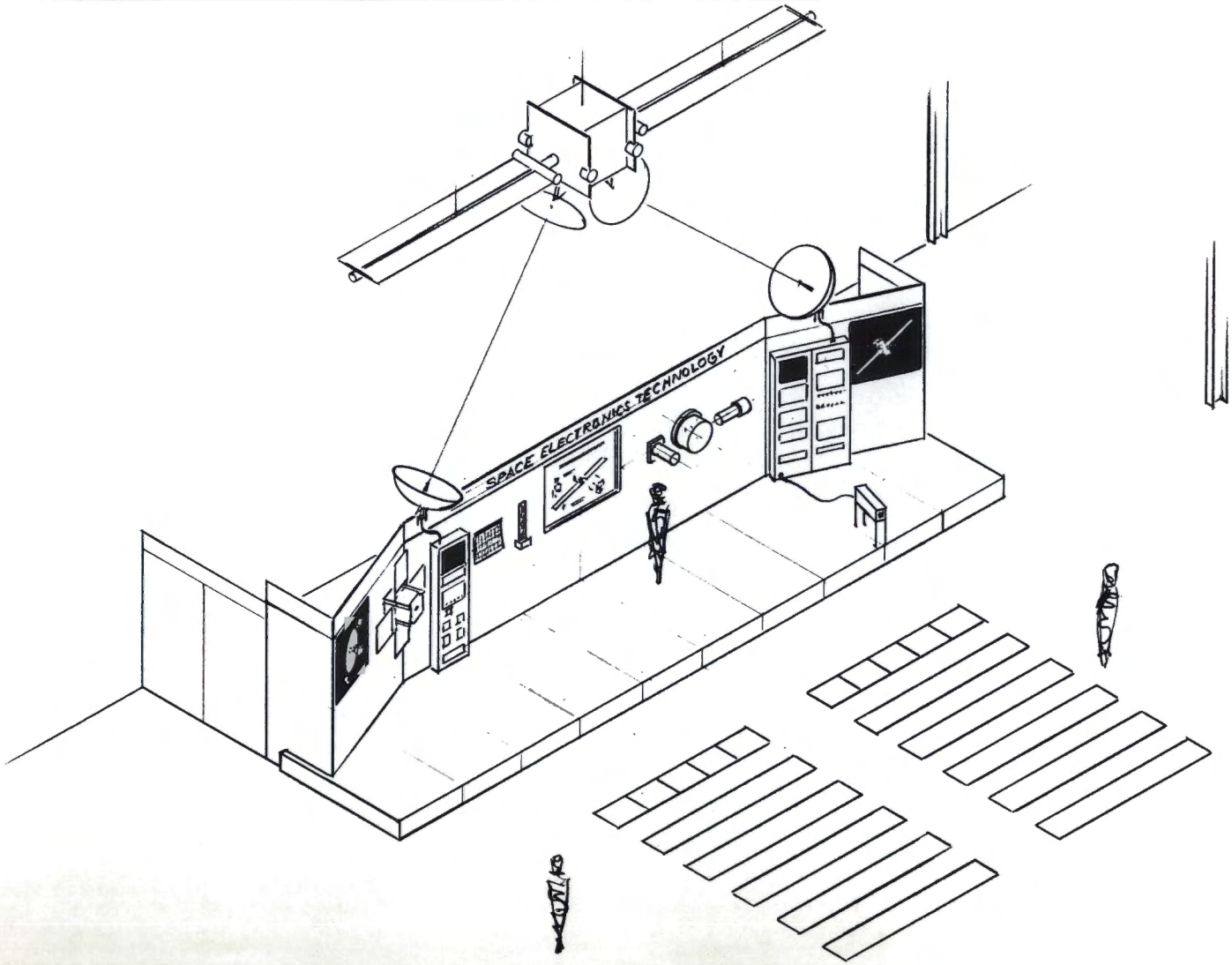
ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE	MAR	APR	MAY	JUN	JUL	AUG	SEP
V. GENERAL AREA PREPARATION										
1. Requirements Analysis (signs, cleanup, painting)										
a. Begun										
b. Completed										
2. Sign Preparation										
a. Begun										
b. Completed										
3. Painting										
a. Begun										
b. Completed										
4. Cleanup										
a. Begun										
b. Completed										
VI. SITE PREPARATION										
1. Exhibit Requirements Analysis Completed										
2. Preliminary Safety Review Completed										
3. Stage and Seating										
a. Plan (Detail Sketches)										
(1) Preparation begun										
(2) Submitted for Division Review										
(3) Approved by Division										
b. Design										
(1) Stage										
(2) Backdrop										
(3) Static Displays										
(4) Submitted for Division Review										
(5) Approved by Division										
(6) Submitted for Insp. Hq. Review										
(7) Approved by Insp. Hq.										
c. Equipment Ordered (Projectors, Screens, Special Lighting, Artwork, etc.)										
d. Construction/Installation										
(1) Stage										
(a) Begun										
(b) Completed										
(2) Backdrop										
(a) Begun										
(b) Completed										
(3) Static Displays										
(a) Begun										
(b) Completed										
(4) P.A. Systems										
(a) Begun										
(b) Completed										
(5) Projection Systems										
(a) Begun										
(b) Completed										
(6) Special Signs, etc.										
(a) Begun										
(b) Completed										
e. All Operating Systems Tested										
f. Final Safety Review Completed										
VII. DIVISION REHEARSAL										
VIII. INSPECTION MANAGER'S REHEARSAL										

NASA-C-[illegible] (Rev. 7-71)



STOP #5 SPACE ELECTRONICS TECHNOLOGY

EPL 1/8"=1' R.S. 6-21-73



STOP #5 SPACE ELECTRONICS TECHNOLOGY

EPL 1/8" = 1' R.S. 6-21-73

August 3, 1973

Dan -

We would like very much to obtain this camera full time as indicated for the following reasons:

- our Division is very busy with projects that have schedules such as CTS and SPHINX
- most of us who are directing this effort and most of the speakers have duties and commitments in connection with these projects
- in selecting speakers and other workers, we have not been able to avoid those with leave plans during this period entirely
- it has become apparent that it is going to be very difficult to schedule rehearsals around these commitments and leave plans
- having the camera continuously will make it possible to schedule rehearsals as needed to make a good presentation for Lundin on 9/5/73

E. W. Otto

STOP NUMBER 6 - "CLEAN ENERGY"

LOCATION - CENTER SECTION, ENGINE RESEARCH BUILDING

STOP ORGANIZER - L. ROSENBLUM

STOP ASSOCIATE - FRANK STENGER

BUILDING MANAGER - N. RICCIARDI

DOCUMENTARY FILM

SPEAKERS - GARY N. BENNINGER
ROBERT W. EASTER
JOHN G. EWASHINKA
JOHN L. ANDERSON
PAUL T. KERWIN
GERALD V. BROWN

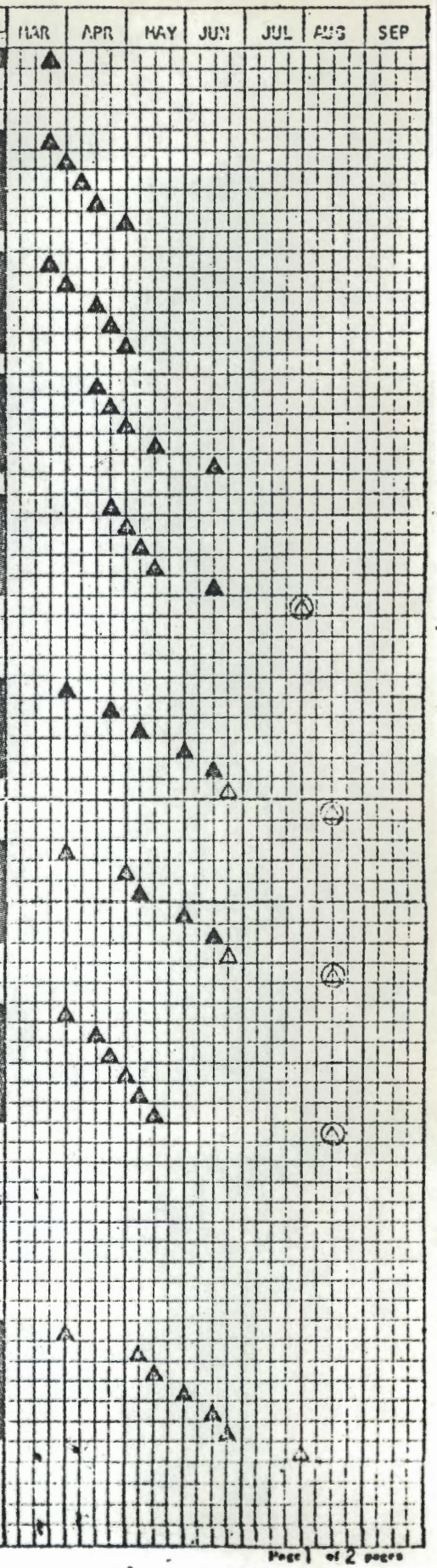
"CLEAN ENERGY FOR A BETTER LIFE"

1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 6

SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE
I. RESPONSIBLE PERSONNEL ASSIGNMENTS			
II. STOP PLANNING			
1. Presentation Outline			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
2. Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
3. Presentation Text			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Division Review			
e. Approved by Inspection Hq.			
4. Revised Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
III. PARTICIPANT (SPEAKERS, ETC.) ASSIGNMENT			
IV. PRESENTATION VISUALS PREPARATION			
1. Slides			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
2. Charts			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
3. Models			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
4. Movies			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
5. Other Displays			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			



NASA C-39.8 (Rev. 7-71)

Organizer: L. Rosenblum (6278, 302-1)

Associate: F. Stenger (2171, 309-1)

Consultants: C. Hauser (8179, 5-9); L. Shure (8388, 500-201); G. Brown (5237, 301-1)

"CLEAN ENERGY FOR A BETTER LIFE"

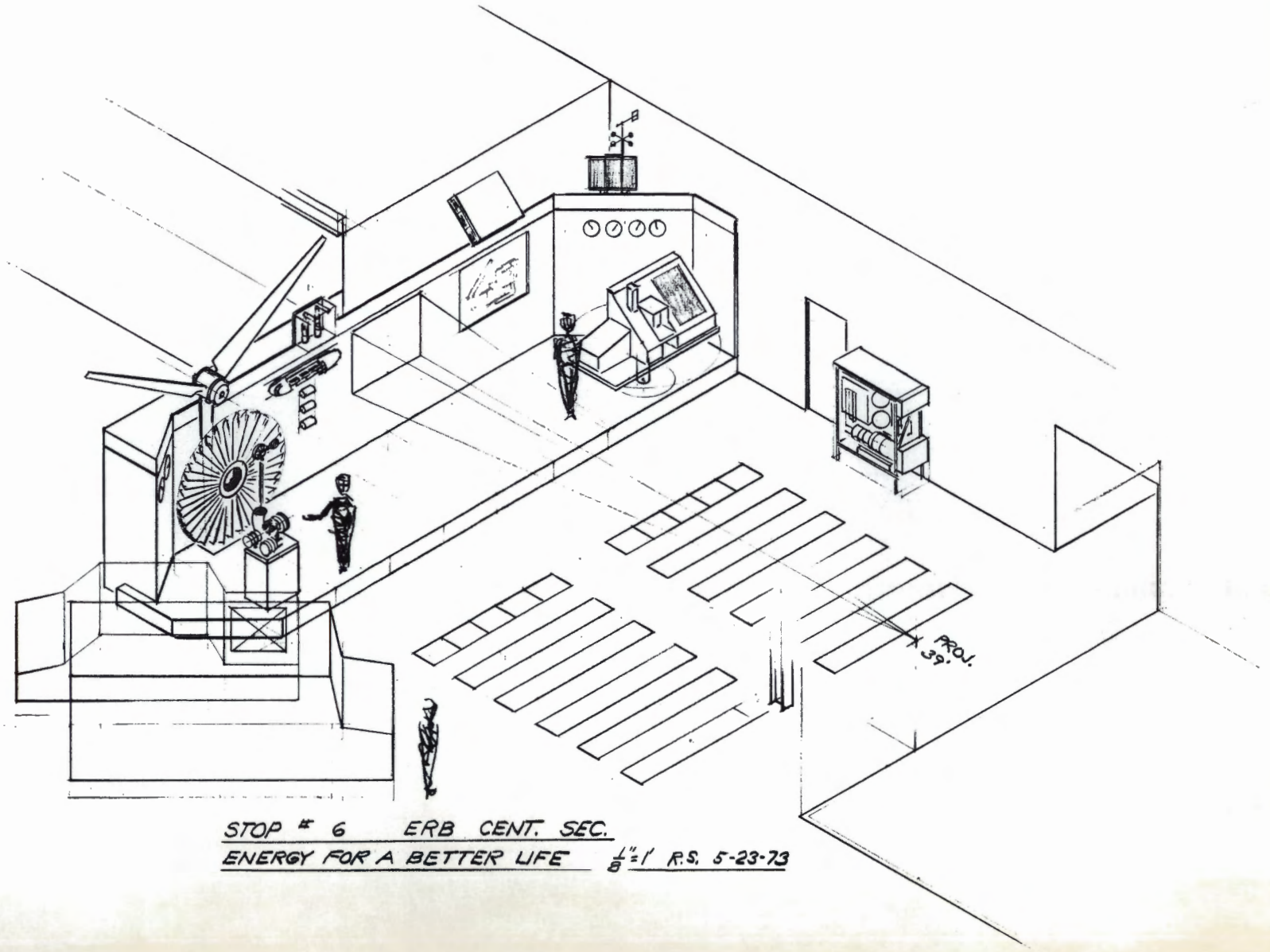
1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 6

SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE	MAR	APR	MAY	JUN	JUL	AUG	SEP
V. GENERAL AREA PREPARATION										
1. Requirements Analysis (signs, cleanup, painting)										
a. Begun										
b. Completed										
2. Sign Preparation										
a. Begun										
b. Completed										
3. Painting										
a. Begun										
b. Completed										
4. Cleanup										
a. Begun										
b. Completed										
VI. SITE PREPARATION										
1. Exhibit Requirements Analysis Completed										
2. Preliminary Safety Review Completed										
3. Stage and Seating										
a. Plan (Detail Sketches)										
(1) Preparation begun										
(2) Submitted for Division Review										
(3) Approved by Division										
b. Design										
(1) Stage										
(2) Backdrop										
(3) Static Displays										
(4) Submitted for Division Review										
(5) Approved by Division										
(6) Submitted for Insp. Hq. Review										
(7) Approved by Insp. Hq.										
c. Equipment Ordered (Projectors, Screens, Special Lighting, Artwork, etc.)										
d. Construction/Installation										
(1) Stage										
(a) Begun										
(b) Completed										
(2) Backdrop										
(a) Begun										
(b) Completed										
(3) Static Displays										
(a) Begun										
(b) Completed										
(4) P.A. Systems										
(a) Begun										
(b) Completed										
(5) Projection Systems										
(a) Begun										
(b) Completed										
(6) Special Signs, etc.										
(a) Begun										
(b) Completed										
e. All Operating Systems Tested										
f. Final Safety Review Completed										
VII. DIVISION REHEARSAL										
VIII. INSPECTION MANAGER'S REHEARSAL										

NASA-C-74.0 (Rev. 7-71)



STOP # 6 ERB CENT. SEC.

ENERGY FOR A BETTER LIFE 1/8"=1' R.S. 5-23-73

April 6, 1973

1010

TO: RD-M/Deputy Associate Administrator-Management

FROM: 1010/Director of Technology Utilization and Public Affairs

SUBJECT: 1973 Inspection at the Lewis Research Center

REF: March 8 memorandum on 1973 Inspection at Lewis Research Center

Dates of Inspection "Technology in the Service of Man" revised to September 19, 20, 21 for approximately 500 guests per day and September 22 and 23 for larger numbers of local public.

Walter T. Olson

cc:
Inspection Office Files

STOP NUMBER 7	-	"MATERIALS FOR MAN"
LOCATION	-	MATERIALS PROCESSING LABORATORY
STOP ORGANIZER	-	JOHN FRECHE
STOP ASSOCIATE	-	FLOYD GARRETT
BUILDING MANAGER	-	L. HERMAN
DOCUMENTARY FILM	-	DANIEL PROK
SPEAKERS -		DAVID A. SPERA ERNEST ROBERTS, JR. HUGH R. GRAY PHILLIP L. STONE TITO T. SERAFINI WILLIAM A. GORDON

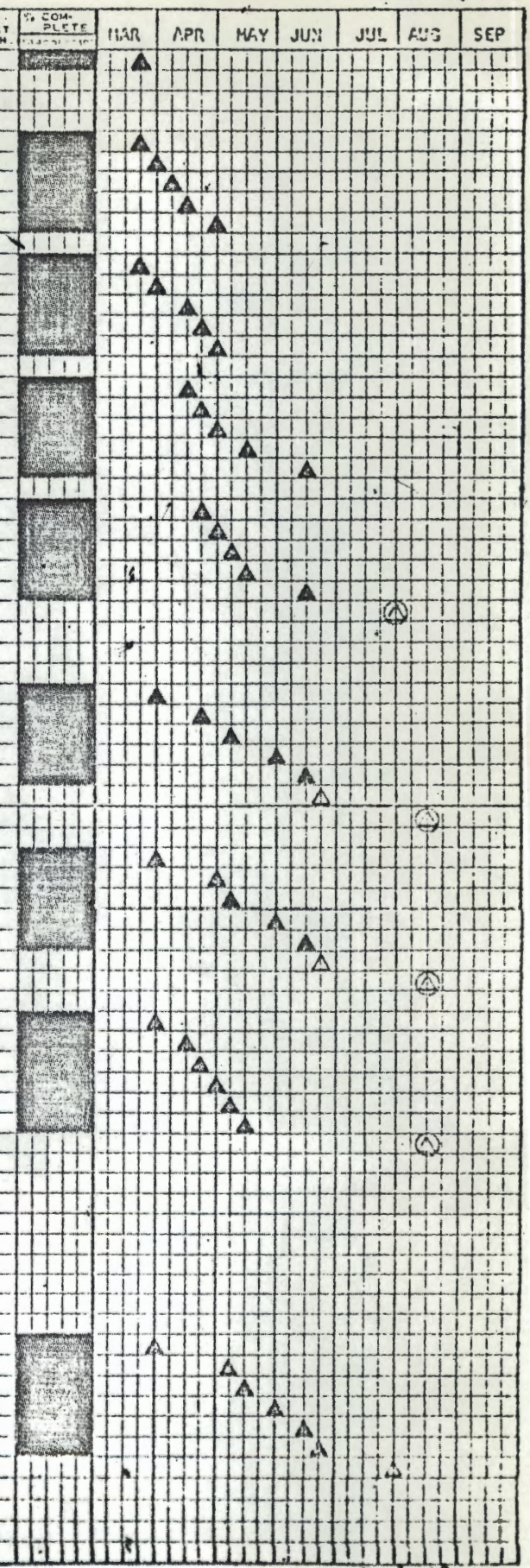
"MATERIALS FOR MAN"

1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 7

SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST M.H.	% COMPLETE
I. RESPONSIBLE PERSONNEL ASSIGNMENTS			
II. STOP PLANNING			
1. Presentation Outline			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
2. Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
3. Presentation Text			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Division Review			
e. Approved by Inspection Hq.			
4. Revised Display Sketches			
a. Preparation begun			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
III. PARTICIPANT (SPEAKERS, ETC.) ASSIGNMENT			
IV. PRESENTATION VISUALS PREPARATION			
1. Slides			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
2. Charts			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
3. Models			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
4. Movies			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			
5. Other Displays			
a. Planned			
b. Submitted for Division Review			
c. Approved by Division			
d. Submitted for Inspection Hq. Review			
e. Approved by Inspection Hq.			
f. Ordered			
g. Completed			



NASA-C-3[illegible] (Rev. 7-71)

Organizer: John Freche (3105, 49-1)
Associate: Floyd Garrett (2158, 49-1)

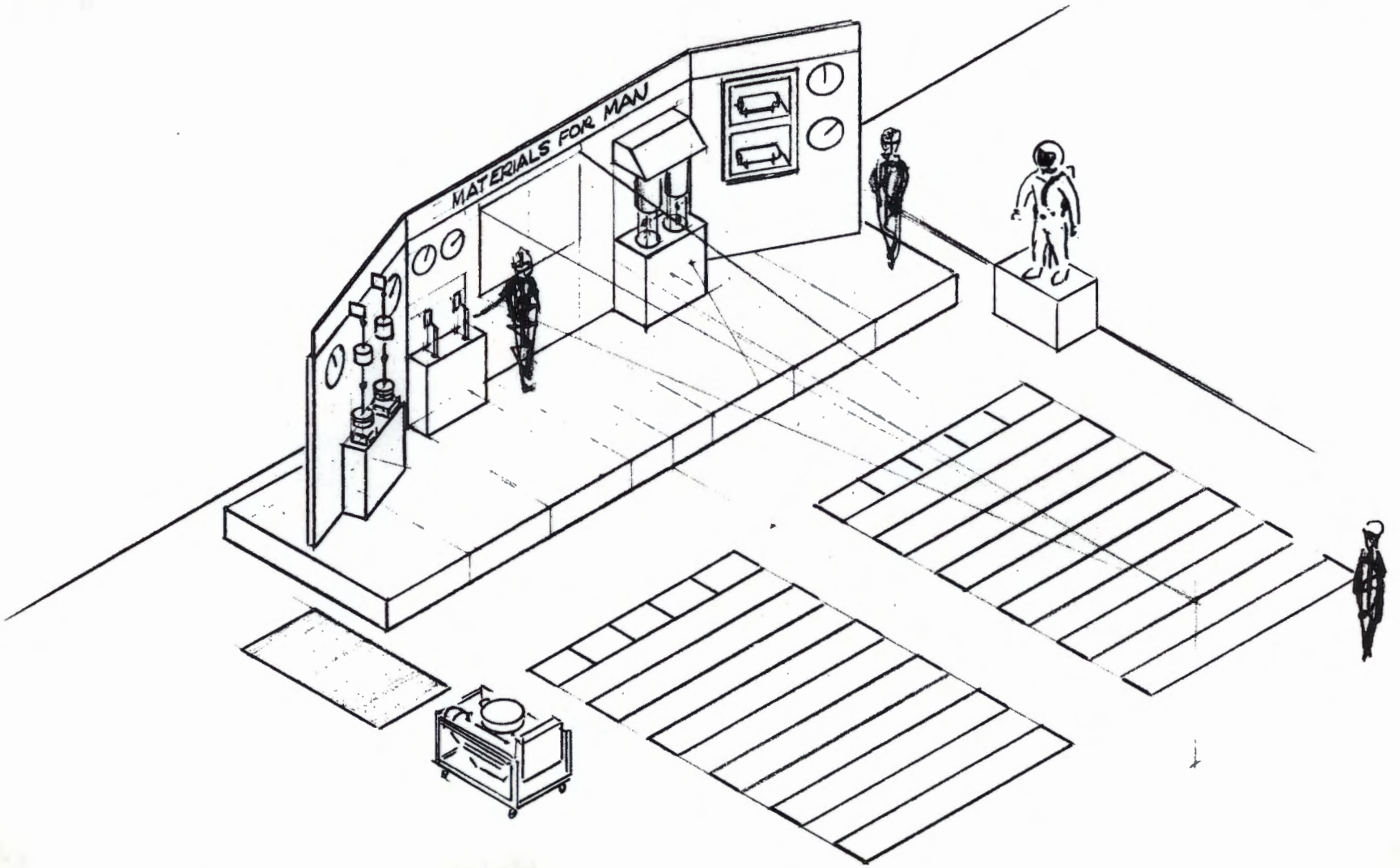
"MATERIALS FOR MAN"

1973 LEWIS INSPECTION
ACTION SCHEDULE

FUNCTIONAL AREA: TECHNICAL EXHIBIT STOP # 7

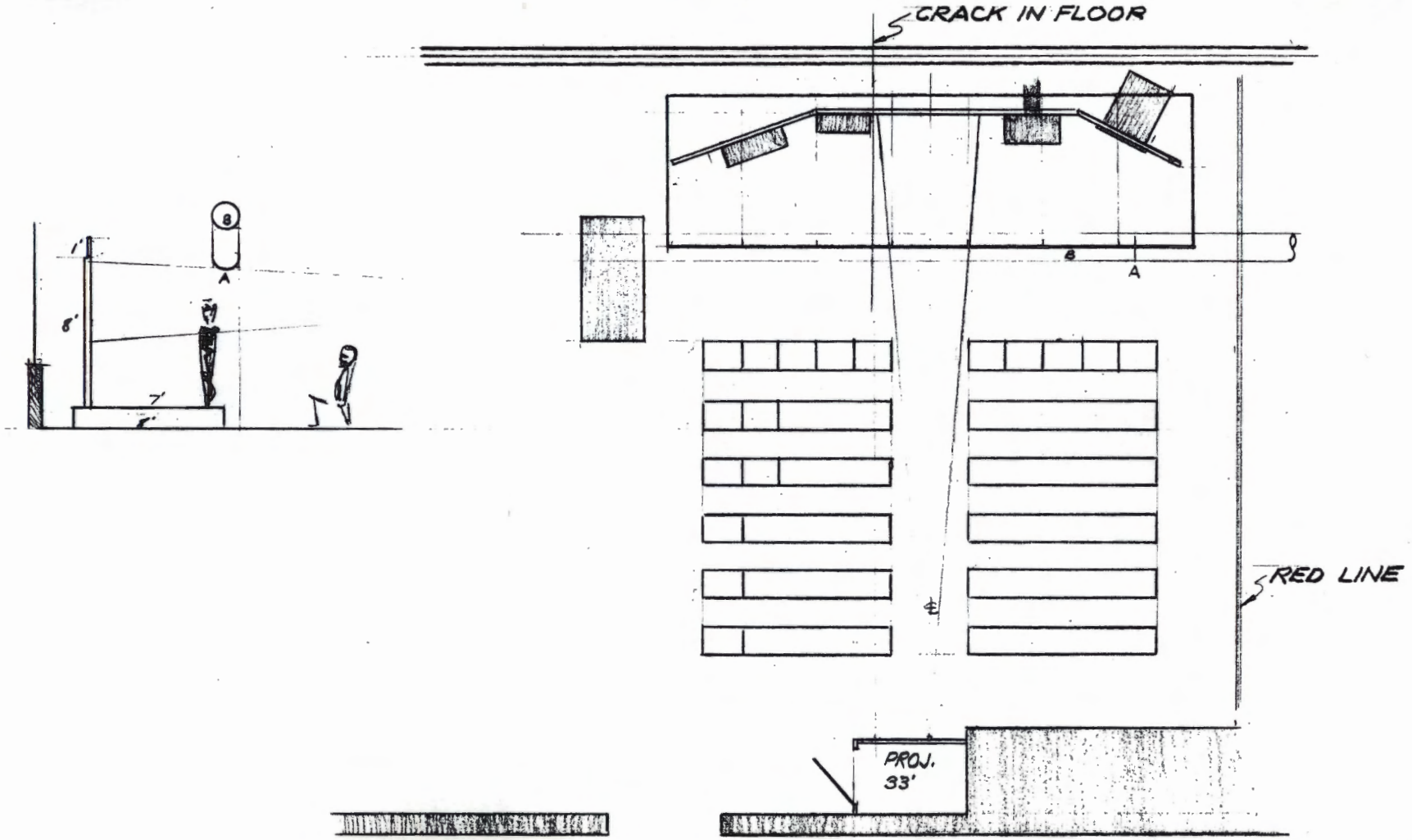
SCHEDULE DATE: JULY 30, 1973

ITEM	RESPONSIBILITY	EST. M.H.	% COMPLETE	MAR	APR	MAY	JUN	JUL	AUG	SEP
V. GENERAL AREA PREPARATION										
1. Requirements Analysis (signs, cleanup, painting)										
a. Begun										
b. Completed										
2. Sign Preparation										
a. Begun										
b. Completed										
3. Painting										
a. Begun										
b. Completed										
4. Cleanup										
a. Begun										
b. Completed										
VI. SITE PREPARATION										
1. Exhibit Requirements Analysis Completed										
2. Preliminary Safety Review Completed										
3. Stage and Seating										
a. Plan (Detail Sketches)										
(1) Preparation begun										
(2) Submitted for Division Review										
(3) Approved by Division										
b. Design										
(1) Stage										
(2) Backdrop										
(3) Static Displays										
(4) Submitted for Division Review										
(5) Approved by Division										
(6) Submitted for Insp. Hq. Review										
(7) Approved by Insp. Hq.										
c. Equipment Ordered (Projectors, Screens, Special Lighting, Artwork, etc.)										
d. Construction/Installation										
(1) Stage										
(a) Begun										
(b) Completed										
(2) Backdrop										
(a) Begun										
(b) Completed										
(3) Static Displays										
(a) Begun										
(b) Completed										
(4) P.A. Systems										
(a) Begun										
(b) Completed										
(5) Projection Systems										
(a) Begun										
(b) Completed										
(6) Special Signs, etc.										
(a) Begun										
(b) Completed										
e. All Operating Systems Tested										
f. Final Safety Review Completed										
VII. DIVISION REHEARSAL										
VIII. INSPECTION MANAGER'S REHEARSAL										



STOP # 7 MATERIALS FOR MAN MPL

1/8" = 1' R.S. 5-17-73



STOP # 7 MATERIALS FOR MAN MPL

1/8" = 1' R.S. 5-17-79

STOP NUMBER 8 - "THE IMPACT OF WEAR"

LOCATION - WEST WING, ENGINE RESEARCH BUILDING

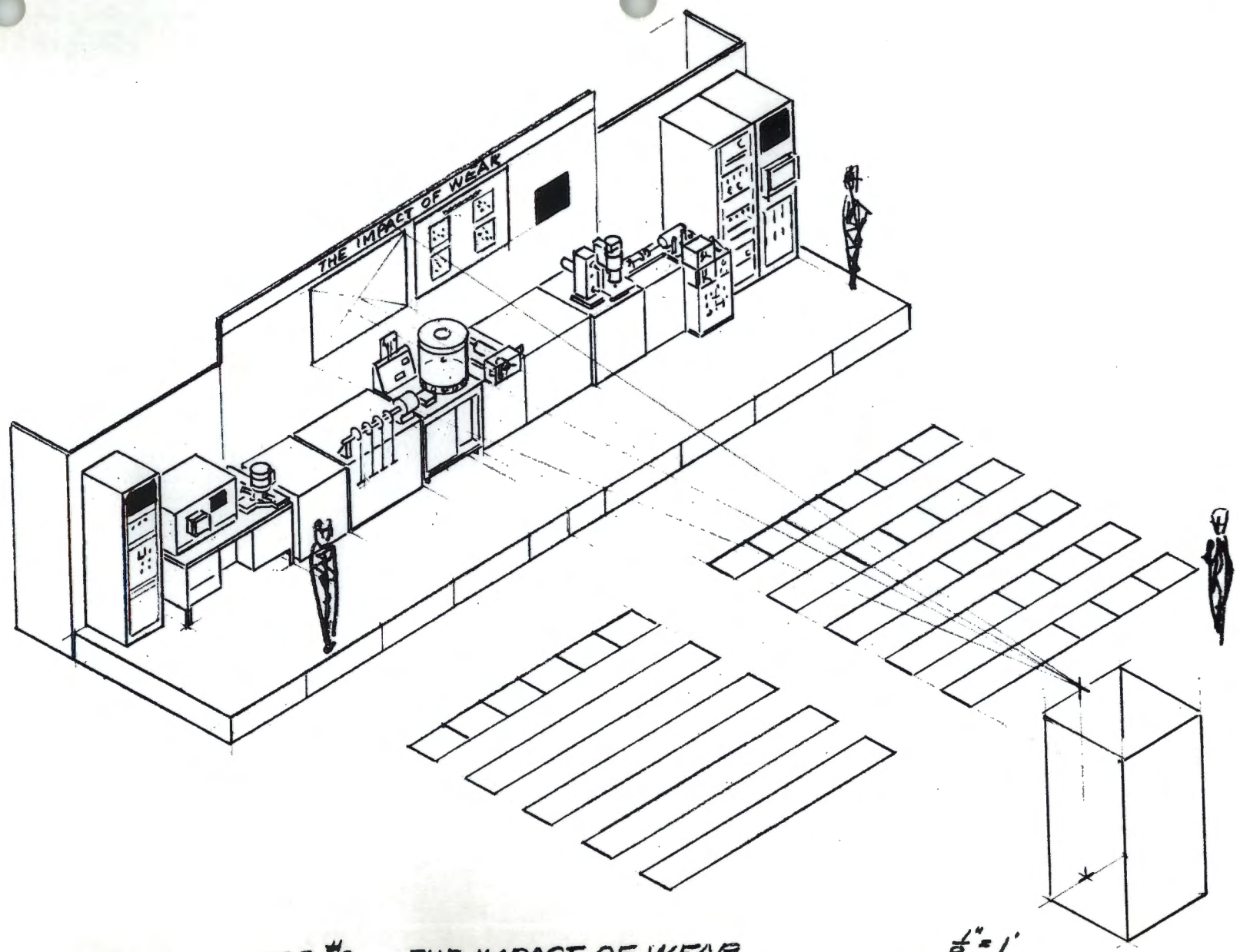
STOP ORGANIZER - ROBERT L. JOHNSON

STOP ASSOCIATE - MAX SWIKERT

BUILDING MANAGER - N. RICCIARDI

TECHNICAL SERVICES - D. GOBLE

SPEAKERS - WILLIAM A. BRAINARD
LAVERN D. WEDEVEN
ROBERT C. BILL
ROBERT L. FUSARO
STEPHEN V. PEPPER
WILLIAM R. JONES, JR.



STOP #8 THE IMPACT OF WEAR

C&T WING, ERB

1/8" = 1'

R.S. 4/25/73

STOP NUMBER 9 - "SERVANTS IN SPACE"

LOCATION - AUDITORIUM, ADMINISTRATION BUILDING

STOP ORGANIZER - HERMAN MARK

STOP ASSOCIATES - RICHARD GEDNEY - LeRC
STANLEY S. FREDEN - GSFC
KENNETH KLEINKNECHT - JSC

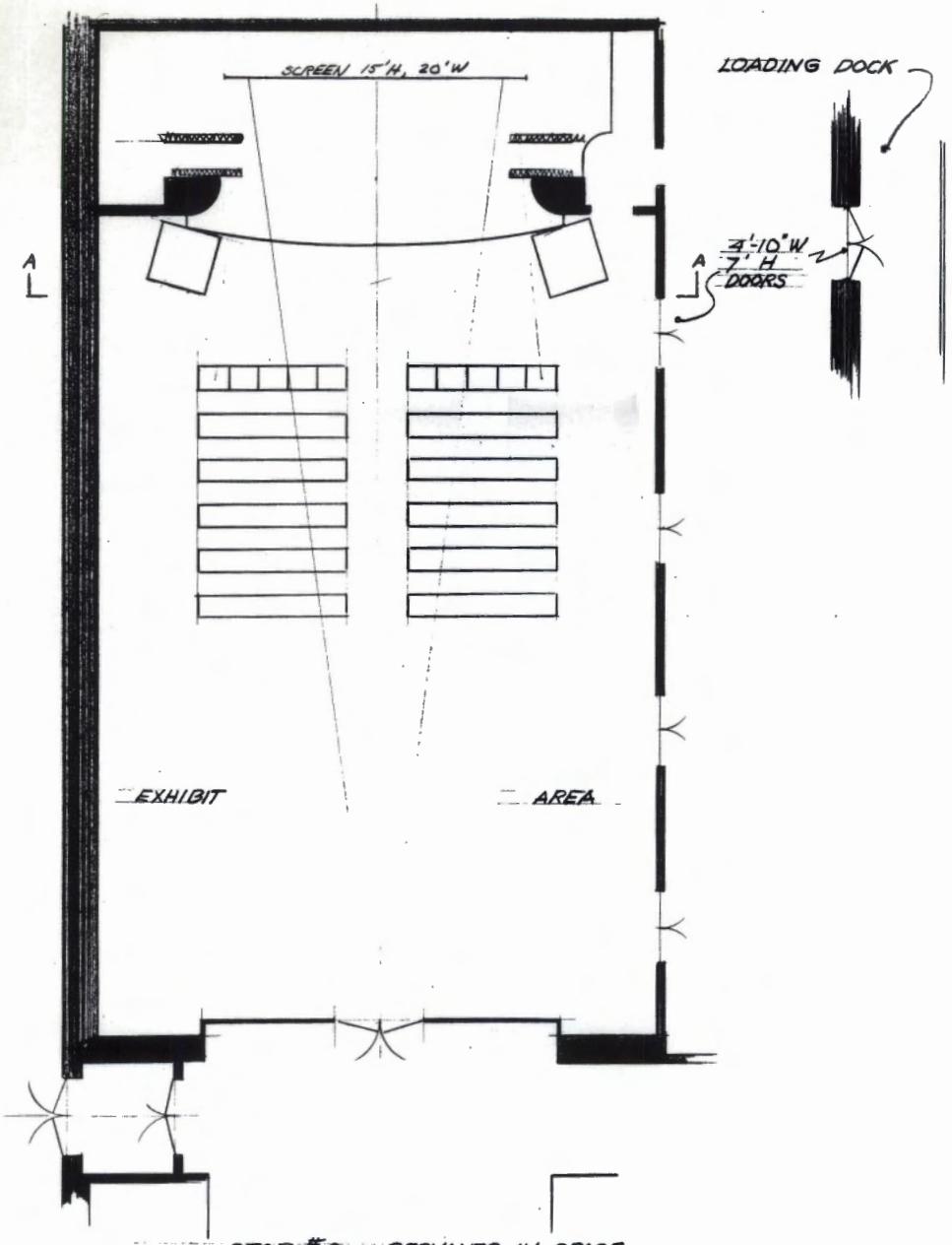
BUILDING MANAGER - H. MASLACH

TECHNICAL SERVICES - DANIEL PROK

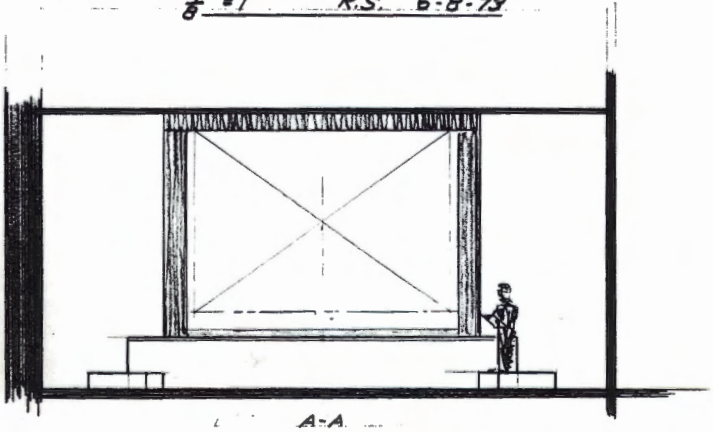
DOCUMENTARY FILM

SPEAKERS - CHARLES A. RAQUET
RONALD J. SCHERTLER

DR. NICHOLAS SHORT - GSFC
DR. PAUL LOWMAN - GSFC
MR. LEON BALLINGER - JSC
MR. J. KALTENBACH - JSC



STOP #9 SERVANTS IN SPACE
AD. BUILDING AUDITORIUM
1/8"=1' R.S. 6-8-79



A-A

D Rich
15-5

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: 5420

June 14, 1973

TO: Johnson Spacecraft Center
Attn: KA/Manager, Skylab Program Office

FROM: 5420/Chief, Aerospace Environment Branch

SUBJECT: Lewis Inspection: "Technology in the Service of Man," September 19-21, 1973

This letter is to convey to you the necessary information which will allow you to prepare for the Johnson Spacecraft Center's presentation at the subject Lewis Inspection.

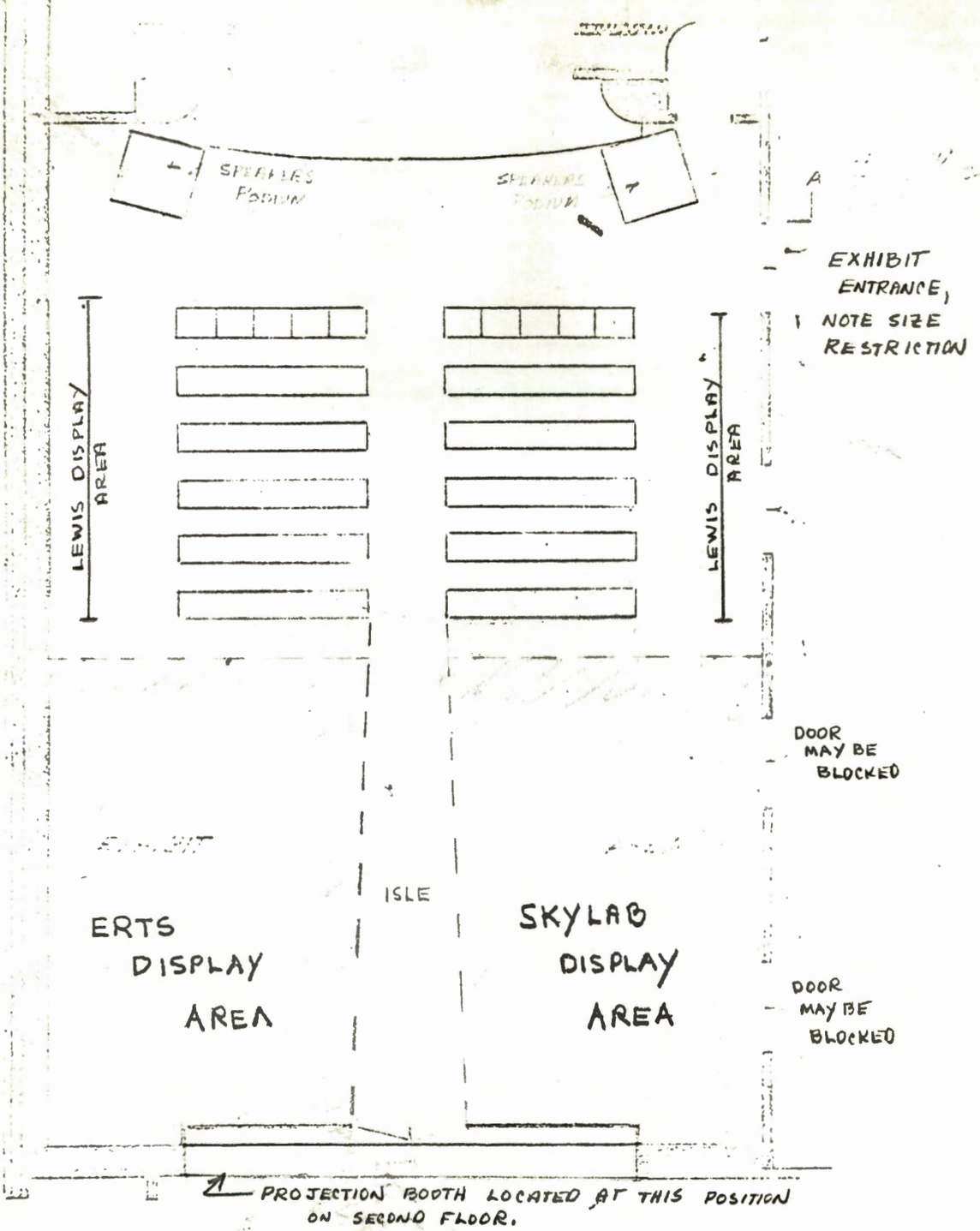
The "Servants in Space" stop (one of nine) presentations will be composed of three consecutive 8-1/3 minute presentations. The three presentations will be (1) the LeRC Earth Resources Program, (2) the Earth Resources Technology Satellite Program, and (3) the Skylab Program. There will be a total of nine presentations per day with time between each presentation for the attendees to view displays. The presentations are to be for leaders in government, education, labor, commerce, and industry. The objective is to show NASA's accomplishments and current programs in such a way that their benefits to man are evident.

The "Servants in Space" stop will be located in the auditorium of the Administration Building. The seating for 60 people, projection equipment, and display layout is given in the attachment. The allocation of space for the Skylab displays is only tentative and can possibly be changed if you need more room. It is requested that you determine what displays you will be using for the stop and mark a location for them on one copy of the attachment and return it to me. Please also send us a copy of your presentation as well as any special needs as soon as possible.

Your assistance in the Lewis Inspection is greatly appreciated.

Herman Mark

Enclosure

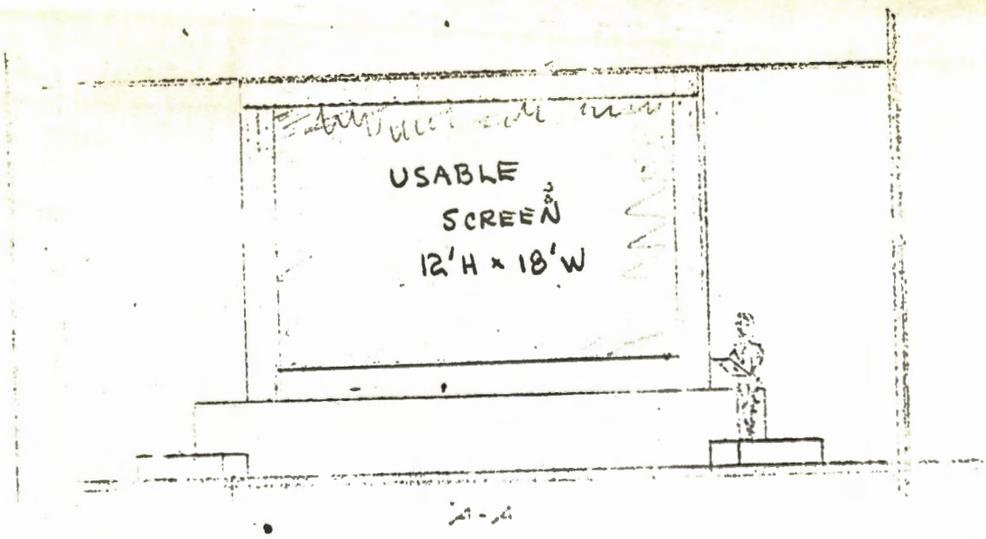


PROJECTION BOOTH LOCATED AT THIS POSITION ON SECOND FLOOR.

PROJECTION EQUIPMENT CURRENTLY AVAILABLE:

ONE, 16mm MOVIE PROJECTOR
TWO, 35mm KODAK CAROUSEL PROJECTORS
ONE, 3¼"x4" SLIDE PROJECTOR

STOP #9 SERVANTS IN SPACE
AD BUILDING AUDITORIUM
⅛" = 1' R.S. 6-8-73



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO ATTN OF: 5400

June 29, 1973

MEMORANDUM

TO: 0100/Director

FROM: 5400/Chief, Physical Science Division

SUBJECT: Lewis Inspection - Stop 9 - "Servants in Space"

The completed text for the presentation is not available at this time due to the difficulty in integrating material from Houston and Goddard with that of our own efforts. Although contact with these centers has been established, presentation particulars have not been finalized. While at Houston, during his present trip, Dr. Mark will meet with the people in the Skylab office who will participate in our presentation.

Dr. Mark will return to Cleveland on Monday, July 2, at which time the presentation can be further developed.

W. E. Moeckel

cc:
5400/Official File
5420/HMark
5422/RGedney
5422/RSchertler

D Prok
15-5

5420 July 18, 1973

TO: Johnson Spacecraft Center
Attn: KA/Cliff Charlesworth/Leon Ballinger

FROM: 5420/Chief, Aerospace Environment Branch

SUBJECT: 1973 Lewis Inspection: September 19, 20, 21

I am enclosing our latest schedule for the 1973 Lewis Inspection rehearsals. Note that they are not far off. We should have our text and slides prepared by that time and have a pretty good idea of what the exhibits will consist of so that changes required for the final version will be a minimum.

Please give this your utmost consideration since we are in competition with eight other stops for electricians, mechanics, photowork, etc.

I assume your representatives will plan to be here for the actual presentations. We can stand in for them during the rehearsals if it is too burdensome for them to be here at that time.

S/

Herman Mark

Enclosure

cc:
5400/Official File
1010/WTOlson
1003/ERichley
7013/DProk
5420/HMark
5420/HMark:la:7/18/73

1003 July 19, 1973

MEMORANDUM

TO: Record

FROM: Edward A. Richley

This date met with Herman Mark and Ted Olson to review status of Stop 9. Explained again in detail to Herman Mark the concept of Stop 9. Instructed Herman to hold a meeting at Lewis next week with representatives from Goddard and JSC who will be participating in Stop 9 in order to develop detailed plans.

Advised Herman that if such a meeting is not held next week that on July 30 I will recommend to the Director a complete revision of the plans for that stop.

Edward A. Richley

cc:
W. T. Olson

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: 5420

August 6, 1973

MEMORANDUM

TO: 1010/Director, Office of Technology Utilization & Public Affairs (General Chairman, 1973 Lewis Inspection)

FROM: 5420/Coordinator of Stop 9, "Servants in Space"

SUBJECT: Meeting of Goddard, Johnson and Lewis Personnel for Stop 9 Coordination

Organization of Stop 9 entitled "Servants in Space" involves considerable input from both Goddard Space Flight Center and Lyndon B. Johnson Space Center as well as Lewis. Because this stop is a technical stop it has characteristics of Stops 1-8 (which are technical stops but Lewis only) and Stop 10 which is a display-only stop including input from other centers. Stop 9, therefore, requires not only coordination of display and exhibit material from various Centers as in Stop 10, but also coordination of the technical presentation which is to be made and must include inputs, ideas, comments, and approvals from all Centers involved as done by Lewis personnel only for Stops 1-8.

The above inclusive requirements demanded that a meeting be called at one location so that face-to-face coordination of these various items could be effected. Lewis was chosen as the location for this meeting for obvious advantages and the meeting was scheduled for and took place on Wednesday, August 1, 1973. This rather late date was the earliest that could be selected due to the exigencies of the Skylab project which demanded JSC personnel attention ahead of all other commitments until the launch of SL-3 on July 28. Unfortunately, although GSFC has cooperated smoothly on Stop 9 to this time, they were unable to send their chief representative, Dr. Nicholas Short, to the August 1 meeting since he was operated on that day to repair a hernia. A satisfactory replacement for Dr. Short could not be found and other departments at Goddard involved were short of travel funds so no Goddard personnel were present at the meeting. Representatives of the Skylab program office, the Earth Resources Program Office, and the Directorate of Science and Applications at Johnson, however, were in attendance at the meeting.

Eight Lewis personnel were present representing Earth Observations, technical support groups, visual aid support groups and the Inspection

Committee. A list of attendees is attached. The meeting was held in room 215 of the Administration Building.

In initiating the interchange, the Stop organizer pointed out that by direction of HQ, Stop 9 was one of two Stops planned to include descriptions of NASA programs from other centers and hence it was as much their responsibility as Lewis's to create a stop which would bring properly to the attention of invitees the accomplishments the NASA had attained in the subject areas (see enclosure 2). The type of visitor was described in order to transmit to the other center personnel the level of the technical presentation that would be required (see enclosure 3).

This preliminary material understood, we went directly to the technical aspects of the presentation and agreed quickly that the order of material presentation should be first ERTS, then Skylab, then the Lewis SR&T program. A 1 to 2 minute introduction in the style of Dr. Short, was agreed upon and the material to be included in the remainder of the talk was only roughed out. It was Mr. Ballinger's suggestion to include some material on underflights and thus briefly mention Ames' role as Lead Center for the flight program. Mr. Kaltenbach then suggested that he would have his revised talk to us by the following week (August 6-8) and it was agreed for the Session Organizer to make the first rough compilation of the three inputs into a total talk so that the material would not be redundant and could be presented with continuity and in a somewhat unified style, at the same time meeting the time limitations for the presentation. It was agreed at this point, as well, that the final talk would be given by three speakers in series to take advantage of the change in look, tone, and style of presentation and add subliminal variety and interest.

The next subject discussed was visual aids and Messrs Kaltenbach of JSC and Henderson of Lewis agreed on methods for handling slides and other visual aids. Mr. Kaltenbach agreed to provide copies of his visual aids to Mr. Henderson by August 15.

Mr. Willis Mitchell of the Skylab Project Office then suggested that he would coordinate the JSC portion of the display with J. W. King and C. A. Biggs and try to have the display at Lewis by August 30.

By August 30 copies of the talk will have been sent to GSFC and JSC and some iteration may have taken place. Approvals at these centers will be acquired from appropriate center management in order that a rehearsal of the presentation for Stop 9 can be made on Wednesday, September 5. Speakers for the various Centers should be prepared to spend September 5 rehearsing for final rehearsal on September 6.

Lewis will coordinate electrical, sound, and visual aid equipment in time for the September 5 rehearsal and the September 6 final rehearsal for the Inspection Officials. A visit to the Auditorium was included and some discussion took place at that location regarding the possibility of the renewal of that facility not being completed in time for the rehearsal or even for the inspection itself. Mr. Thoennes injected at this point that R. R. Godman of Lewis had given the Center Director assurances that this facility would be available, so all worry temporarily ceased. It was agreed by Jim Modarelli and Hugh Harris, both of Lewis representing the Inspection Committee, that hand-outs as part of the display would be acceptable but that they would neither be desirable nor required elsewhere since a booklet is being prepared to be given to the visitors which will describe the material presented at all stops. Johnson Center personnel requested preliminary copies of this booklet for Center approval and Mr. Harris agreed to make them available for this purpose.

Although Mr. Coletto of Goddard was unable to attend the meeting, he did make contact with Mr. Modarelli regarding displays. This will have to be followed closely to make sure no hitches occur in the handling of this material as well as the visual aids to be used for Dr. Short.

All appropriate subjects having been exhausted, the action items scheduled to occur at seemingly realistic rate, the meeting was adjourned so the visitors could catch their plane back to Texas. The entire interaction having been very cordial suggests that cooperation will continue at a high level and the purposes of the effort will be accomplished.

Herman Mark

3 Enclosures

cc:
5400/Official File
5420/HMark
5422/RTGedney
1013/HHarris
1921/MHenderson
7211/HMaslach
1900/JModarelli
1920/RSchulke
7212/DThoennes
7013/DSProk
1003/EARichley

Johnson Space Center
HA/LHBallinger
TD5/JLKaltenbach
KS/WBMitchell
HA/CECharlesworth
KA/KSKleinknecht
TA/AJCalio
AP5/CABiggs
AP/JWKing

Goddard Space Flight Center
202.0/GGColetto
650.0/SCFreden
650.3/NMShort

ATTENDEES - 1973 INSPECTION

STOP 9

Herman Mark, Coordinator

Name	Center	FTS Phone
Leon H. Ballinger	JSC	713-483-2317
John L. Kaltenbach	JSC	713-483-4017
Willis B. Mitchell	JSC	713-483-2126
Richard T. Gedney	LeRC	216-433-6207
Hugh Harris	LeRC	216-433-6438
Murray Henderson	LeRC	216-433-6457
Henry Maslach	LeRC	216-433-6720
Jim Modarelli	LeRC	216-433-6460
Dick Schulke	LeRC	216-433-6174
Don Thoennes	LeRC	216-433-6206

Enclosure 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

July 10, 1973

REPLY TO ATTN OF: 1010

MEMORANDUM

TO: Addressees

FROM: 1010/General Chairman, 1973 Inspection

SUBJECT: 1973 Lewis Inspection: September 19, 20, 21

Invitations to the 1973 Lewis Inspection, "Technology in the Service of Man" have now been issued to about 7000 leaders of government, business and industry, labor, education, and the professions with an expectation of 1500 acceptances for September 19, 20, and 21. If we are overwhelmed, we anticipate adding September 18, -or even September 17 or September 24. Plan accordingly.

Rehearsals at tour stops are scheduled as follows. Stop organizers and their co-workers are urged to be well prepared so that changes and further rehearsals will be a minimum.

Tuesday, September 4

9:30 a.m. - Stop 1 - Quieting the Fleet
11:00 a.m. - Stop 2 - Cleaner Skies
1:30 p.m. - Stop 3 - Powered Lift
3:00 p.m. - Stop 4 - Big Boost for Rockets

Wednesday, September 5

9:30 a.m. - Stop 5 - Space Electronics Technology
11:00 a.m. - Stop 6 - Clean Energy
1:30 p.m. - Stop 7 - Materials for Man
3:00 p.m. - Stop 8 - The Impact of Wear

Thursday, September 6

9:30 a.m. - Stop 9 - Servants in Space

If there is any problem with this time-table, please let me know immediately.

Final run-throughs are expected to be scheduled in the time period September 10 to 12; please save these dates.

Walter T. Olson

Addressees:

0100/Bruce T. Lundin
0100/Bernard Lubarsky
0100/Henry C. Barnett
7000/James F. Connors
0110/E. J. Manganiello
9000/Edmund R. Jonash
1003/Edward A. Richley
1900/James J. Modarelli
1013/Hugh W. Harris
1960/John M. Powell
1000/Arthur R. Wycoff, Jr.
7221/Donald R. Thoennes
7013/Daniel S. Prok

2530/Earl W. Conrad (1)
2132/Robert E. Jones (2)
2520/Roger W. Luidens (3)
9500/Howard W. Douglass (4)
3300/Edward W. Otto (5)
5100/Louis Rosenblum (6)
5500/John C. Freche (7)
2610/Robert L. Johnson (8)
5420/ Herman Mark (9)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: 1003

August 22, 1973

MEMORANDUM

TO: DISTRIBUTION

FROM: Vice Chairman, 1973 Lewis Inspection

SUBJECT: Inspection Stop Speakers

Please provide me with a list of your Inspection Stop Speakers and back-up Speakers by August 29th. The list should be sent to Inspection Headquarters, MS: 3-15.

Edward A. Richley

DISTRIBUTION:
2132/R. E. Jones
2520/R. W. Luidens
9500/H. W. Douglass
3300/E. W. Otto
5100/L. Rosenblum
5500/J. C. Freche
2610/R. L. Johnson
5420/H. Mark

SPEAKERS LIST

1973 LEWIS INSPECTION

STOP 1 - QUIETING THE FLEET

Group 1	Mail Stop	Org. Code
James R. Stone	501-4	2541
Allen M. Karchmer	501-4	2542
Ronald G. Huff	501-4	2542
Kenneth J. Baumeister	501-4	2532
William A. Olsen, Jr.	501-4	2542
Group 2		
Carl C. Ciepluch	501-4	2560
James H. Dittmar	501-4	2532
John W. Schaefer	501-4	2560
Francis J. Montegani	501-4	2560
Joseph A. Yuska	501-7	2582

STOP 2 - CLEANER SKIES

James S. Fear	60-4	2131
Raymond S. Colladay	77-2	2142
Edwin J. Graber, Jr.	60-6	2113
James D. Holdeman	60-6	2131
Edward J. Mularz	60-6	0300

STOP 3 - POWERED LIFT

John M. Abbott	501-4	2522
Gary G. Kelm	501-4	2551
David A. Sagerser	501-7	2572
Donald C. Urasek	5-9	2631
Richard J. Roelke	77-2	2642
Everett E. Bailey	5-9	2633

STOP 4 - BIG BOOST FROM ROCKETS

Group 1		
John J. Nieberding	500-119	9111
Rodney M. Knight	500-107	9100
Raymond F. Lacovic	500-116	9231

SPEAKERS LIST (CONTINUED)

STOP 4 - Continued

Group 2	Mail Stop	Org. Code
Roger S. Palmer	500-120	9133
Dale E. Pope	500-120	9131
Robert G. Rohal	49-3	9131
Group 3		
Gary D. Sagerman	500-318	9511
Irving E. Sumner	500-203	9532
Thom A. Coney	500-204	9522
Group 4		
Murray M. Bailey	500-205	9501
Wayne A. Thomas	500-209	9541
Neal F. Wingenfeld	500-209	9541

STOP 5 - SPACE ELECTRONICS TECHNOLOGY

David L. Wright	501-1	3312
Bruce E. LeRoy	54-3	3343
James A. Burkhart	54-5	3311
Karl F. Reader	54-5	3301
Gerald F. Hein	501-1	3400
James E. Cake	500-107	3343
Michael D. Richardson	501-4	3312
Albert J. Weigand	54-1	3333

STOP 6 - CLEAN ENERGY

Gary N. Benninger		5141
Robert W. Easter	309-1	5123
John G. Ewashinka	302-1	5112
John L. Anderson	500-201	5211
Paul T. Kerwin	500-202	5231
Gerald V. Brown	301-1	5442

STOP 7 - MATERIALS FOR MAN

David A. Spera	49-1	5570
Ernest Roberts, Jr.	106-1	5532
Hugh R. Gray	49-1	5562
Phillip L. Stone	105-1	5533
Tito T. Serafini	49-3	5522
William A. Gordon	105-1	55013

SPEAKERS LIST (CONTINUED)

STOP 8 - THE IMPACT OF WEAR

William A. Brainard	23-2	2613
Lavern D. Wedeven	23-2	2612
Robert C. Bill	23-2	0300
Robert L. Fusaro	23-2	2612
Stephen V. Pepper	23-2	2613
William R. Jones, Jr.	23-2	2612

STOP 9 - SERVANTS IN SPACE

Charles A. Raquet	301-1	5422
Ronald J. Schertler	301-1	5422

Dr. Nicholas Short, GSFC
Dr. Paul Lowman, GSFC
Mr. Leon Ballinger, JSC
Mr. J. Kaltenbach, JSC

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: INSP

August 21, 1973

MEMORANDUM

TO: DISTRIBUTION

FROM: Chairman, 1973 Lewis Inspection

SUBJECT: Inspection Rehearsals

This is a reminder of an invitation to attend the formal rehearsals of the 1973 Inspection Stops. Rehearsals at tour stops are scheduled as follows:

Tuesday, September 4

9:30 a.m.	Stop 1 - Quieting the Fleet	- 10X10 Shop
11:00 a.m.	Stop 2 - Cleaner Skies	- PSL 3 & 4
1:30 p.m.	Stop 3 - Powered Lift	- 9X15
3:00 p.m.	Stop 4 - Big Boost from Rockets	- Zero-G

Wednesday, September 5

9:30 a.m.	Stop 5 - Space Electronics Technology	- EPL
11:00 a.m.	Stop 6 - Clean Energy for a Better Life	- ERB, Center
1:30 p.m.	Stop 7 - Materials for Man	- MPL
3:00 p.m.	Stop 8 - The Impact of Wear	- ERB, West

Thursday, September 6

9:30 a.m.	Stop 9 - Servants in Space	- Ad. Bldg. Auditorium

Automobiles will be available behind the Administration Building.

Stop Organizers are being invited for purposes of coordinating remarks.

Please notify the Inspection Office, PAX 8673, PBX 6873, if you plan to attend.

Walter T. Olson

DISTRIBUTION:
0100/B. T. Lundin
0100/B. Lubarsky
0100/H. C. Barnett
0110/E. J. Manganiello
3000/J. H. Childs
5000/G. M. Ault
6000/H. Johnson
7000/J. F. Connors
8000/R. R. Godman
9000/E. R. Jonash
Inspection Team:
1010/W. T. Olson
1003/E. A. Richley
1900/J. J. Modarelli
1960/J. M. Powell
1920/R. Schulke
1000/A. R. Wycoff
1013/H. Harris
7013/D. Prok
7221/D. R. Thoennes
1921/M. Henderson

Stop Organizers:	Stops
2530/E. W. Conrad	(1)
2132/R. E. Jones	(2)
2520/R. W. Luidens	(3)
9500/H. W. Douglass	(4)
3300/E. W. Otto	(5)
5100/L. Rosenblum	(6)
5500/J. C. Freche	(7)
2610/R. L. Johnson	(8)
5420/Herman Mark	(9)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: INSP

September 10, 1973

MEMORANDUM

TO: DISTRIBUTION

FROM: Chairman, 1973 Lewis Inspection

SUBJECT: Second Inspection Rehearsal Schedule

Wednesday, September 12

10:00 a.m.	Stop 4 - Big Boost from Rockets	- Zero-G
11:00 a.m.	Stop 8 - Impact of Wear	- ERB, West
2:00 p.m.	Stop 7 - Materials for Man	- MPL

Thursday, September 13

1:30 p.m.	Stop 2 - Cleaner Skies	- PSL 3 & 4
2:30 p.m.	Stop 6 - Clean Energy	- ERB, Center

Friday, September 14

9:00 a.m.	Stop 1 - Quieting the Fleet	- 10X10 Shop
10:00 a.m.	Stop 3 - Powered Lift	- 9X15
11:00 a.m.	Stop 5 - Space Electronics Technology	- EPL

Attention Stop Organizers:

1. Please have presentations made by different speakers than used for the first rehearsal.

2. A full dress rehearsal will be held on Tuesday, September 18. Information regarding schedule details will be issued later this week.

Walter T. Olson

DISTRIBUTION:
0100/B. T. Lundin
0100/B. Lubarsky
0100/H. C. Barnett
0110/E. J. Manganiello
3000/J. H. Childs
5000/G. M. Ault
6000/H. Johnson
7000/J. F. Connors
8000/R. R. Godman
9000/E. R. Jonash
0150/F. E. Belles
0170/W. F. Dankhoff

Inspection Team:
1010/W. T. Olson
1003/E. A. Richley
1900/J. Modarelli
1920/R. Schulke
1000/A. R. Wycoff
1013/H. Harris
7013/D. Prok
7221/D. R. Thoennes
1921/M. Henderson
7510/H. Wharton
1961/J. Sheehan

Stop Organizers:	Stops
2530/E. W. Conrad	(1)
2132/R. E. Jones	(2)
2520/R. Luidens	(3)
9500/H. Douglass	(4)
3300/E. W. Otto	(5)
5100/L. Rosenblum	(6)
5500/J. C. Freche	(7)
2610/R. L. Johnson	(8)
5420/H. Mark	(9)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: INSP

September 12, 1973

MEMORANDUM

TO: Distribution

FROM: Vice-Chairman, 1973 Lewis Inspection

SUBJECT: Full Dress Rehearsal for "Technology in the Service of Man"

A full dress rehearsal will be held on Tuesday, September 18, 1973 of the program. It will begin at 9:00 a. m. in the DEB Auditorium and one bus following the schedule of the "silver" group will be used. The tour group will consist of the Group Leaders, Assistant Group Leaders, Bus Guides, and Inspection Team. Group Leaders, Assistant Group Leaders, and Bus Guides should report to the DEB Auditorium and be in their seats by 9:00 a. m. The scheduled time from 9:00-9:25 a. m. will be used to review procedures and answer questions. Stop Organizers, speakers and other participants are invited to this part of the program and may accompany the tour group on a space available basis on the bus. Enclosed are two copies of the "Daily Schedule - 1973 Inspection of Lewis Research Center - September 19, 20 & 21" for your information.

If you have any questions on this full dress rehearsal, please contact my office at PAX 3155 or 3254 or PBX 456 or 775.

Edward A. Richley

Edward A. Richley

Enclosure

Distribution:
0100/B. T. Lundin
0100/B. Lubarsky
0100/H. C. Barnett
0110/E. J. Manganiello
3000/J. H. Childs
5000/G. M. Ault
6000/H. Johnson
7000/J. F. Connors
8000/R. R. Godman
9000/E. R. Jonash
0150/F. E. Belles
0170/W. F. Dankhoff

Inspection Team:
1010/W. T. Olson
1003/E. A. Richley
1900/J. Modarelli
1920/R. Schulke
1000/A. R. Wycoff
1013/H. Harris
7013/D. Prok
7221/D. R. Thoennes
1921/M. Henderson
7510/H. Wharton
1961/J. Sheehan

Stop Organizers:	Stops
2530/E. W. Conrad	(1)
2132/R. E. Jones	(2)
2520/R. Luidens	(3)
9500/H. Douglass	(4)
3300/E. W. Otto	(5)
5100/L. Rosenblum	(6)
5500/J. C. Freche	(7)
2610/R. L. Johnson	(8)
5420/H. Mark	(9)

DAILY SCHEDULE - 1973 INSPECTION OF LE[redacted]RESEARCH CENTER - SEPTEMBER 19, 20 & 21

7:30 Start Guest pickup at Motels and Airport
8:00 REGISTRATION. Baggage Checking; . . . . . Development Engineering Bldg. Cafeteria
9:00 WELCOMING REMARKS by Director . . . . . DEB Auditorium
9:10 OPENING ADDRESS by NASA Administrator
9:25 START TOUR. Board bus marked with same color as your badge.

STOP NO.	SUBJECT (Location)	SILVER	GOLD	GREEN	BLUE	YELLOW	PINK	WHITE	BUFF	SALMON
1	QUIETING THE FLEET (10x10 Shop)	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40
2	CLEANER SKIES (PSL 3 & 4)	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20
3	POWERED LIFT (9x15)	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05
4	BIG BOOST FROM ROCKETS (Zero-G)	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45
5	SPACE ELECTRONICS TECHNOLOGY (EPL)	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30
6	CLEAN ENERGY FOR A BETTER LIFE (ERB - Center)	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20
7	MATERIALS FOR MAN (MPL)	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05
8	THE IMPACT OF WEAR (ERB - West Wing)	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40
9	SERVANTS IN SPACE (Ad. Bldg. Aud.)	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55
	MORNING COFFEE BREAK (15 Minutes)	10:40 - 10:55 (EPL)	10:50 - 11:05 (ERB - West)	10:40 - 10:55 (ERB - West)	10:50 - 11:05 (Ad. Bldg.)	10:40 - 10:55 (Ad. Bldg.)	10:50 - 11:05 (PSL)	10:40 - 10:55 (PSL)	10:50 - 11:05 (10x10)	10:40 - 10:55 (10x10)
	AFTERNOON COFFEE BREAK (15 Minutes)	3:05 - 3:20 (PSL)	2:55 - 3:10 (PSL)	3:05 - 3:20 (10x10)	2:55 - 3:10 (10x10)	2:55 - 3:10 (EPL)	3:05 - 3:20 (ERB - West)	2:55 - 3:10 (ERB - West)	3:05 - 3:20 (Ad. Bldg.)	2:55 - 3:10 (Ad. Bldg.)
	LUNCHEON (50 Minutes) (DEB Cafeteria)	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40

4:30 SOCIAL - Hangar (Stop 10) - Special Exhibits
5:00 Buses begin to leave for visitor parking, airport, and motels via DEB for baggage pickup.
5:15 Last bus and NASA cars depart Hangar.

Notes:

1. A group will contain a maximum of 50 persons.
2. Luncheon will be served in the DEB Cafeteria.
3. Coffee stops will accommodate two groups at:
   a) 10x10 Shop Area
   b) Ad. Bldg. Aud.
   c) ERB West Wing
   d) PSL 3 & 4
4. A coffee stop will accommodate only one group at EPL.
5. Times at each stop indicate beginning and end of presentation.
6. Each presentation is 25 minutes.
7. Moving time between presentations is 10 minutes.

DAILY SCHEDULE - 1973 INSPECTION OF LE[redacted]RESEARCH CENTER - SEPTEMBER 19, 20 & 21

7:30 Start Guest pickup at Motels and Airport
8:00 REGISTRATION. Baggage Checking; . . . . . Development Engineering Bldg. Cafeteria
9:00 WELCOMING REMARKS by Director . . . . . DEB Auditorium
9:10 OPENING ADDRESS by NASA Administrator
9:25 START TOUR. Board bus marked with same color as your badge.

STOP NO.	SUBJECT (Location)	SILVER	GOLD	GREEN	BLUE	YELLOW	PINK	WHITE	BUFF	SALMON
1	QUIETING THE FLEET (10x10 Shop)	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40
2	CLEANER SKIES (PSL 3 & 4)	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20
3	POWERED LIFT (9x15)	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05
4	BIG BOOST FROM ROCKETS (Zero-G)	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45
5	SPACE ELECTRONICS TECHNOLOGY (EPL)	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30
6	CLEAN ENERGY FOR A BETTER LIFE (ERB - Center)	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20
7	MATERIALS FOR MAN (MPL)	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05
8	THE IMPACT OF WEAR (ERB - West Wing)	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55	1:55 2:20	12:15 12:40
9	SERVANTS IN SPACE (Ad. Bldg. Aud.)	1:55 2:20	12:15 12:40	11:40 12:05	11:05 11:30	10:15 10:40	9:40 10:05	3:55 4:20	3:20 3:45	2:30 2:55
	MORNING COFFEE BREAK (15 Minutes)	10:40 - 10:55 (EPL)	10:50 - 11:05 (ERB - West)	10:40 - 10:55 (ERB - West)	10:50 - 11:05 (Ad. Bldg.)	10:40 - 10:55 (Ad. Bldg.)	10:50 - 11:05 (PSL)	10:40 - 10:55 (PSL)	10:50 - 11:05 (10x10)	10:40 - 10:55 (10x10)
	AFTERNOON COFFEE BREAK (15 Minutes)	3:05 - 3:20 (PSL)	2:55 - 3:10 (PSL)	3:05 - 3:20 (10x10)	2:55 - 3:10 (10x10)	2:55 - 3:10 (EPL)	3:05 - 3:20 (ERB - West)	2:55 - 3:10 (ERB - West)	3:05 - 3:20 (Ad. Bldg.)	2:55 - 3:10 (Ad. Bldg.)
	LUNCHEON (50 Minutes) (DEB Cafeteria)	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40	12:50 1:40

4:30 SOCIAL - Hangar (Stop 10) - Special Exhibits
5:00 Buses begin to leave for visitor parking, airport, and motels via DEB for baggage pickup.
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7. Moving time between presentations is 10 minutes.

Elaine

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: 1003

May 15, 1973

MEMORANDUM

TO: 1973 Inspection Stop Organizers

FROM: Vice Chairman, 1973 Lewis Inspection

SUBJECT: Status Report on Outline and Text Preparations

This is to advise you that at this writing, outlines and preliminary sketches have been approved for Stops 1 through 8. In addition, Herman Mark has been designated as the coordinator of Stop 9, Servants in Space, and points of contact have been identified at the Goddard Space Flight Center and at the Johnson Space Center to work with Dr. Mark in preparing this Stop. Stop 10 planning is well underway and contacts have been established at each of the NASA Centers to work with Jim Modarelli.

For your information, attached is a copy of the latest Stop title, location, organizer etc.

The next major milestone associated with text preparation is the submission of a draft copy of the text and revised figures due in Inspection Headquarters by May 15. The reason for this seemingly early date is associated with plans to prepare and print a rather detailed brochure describing the Inspection. It is the intention that this brochure will be mailed out with all confirmed acceptances to invitations to the Inspection. At the same time it is recognized that it is a bit ambitious to expect a final polished text to be submitted on such short notice. Therefore, Hugh Harris, who is in charge of publicity has indicated he will make every effort to work with material that has been submitted to date, however, after reviewing it he has advised that in many instances he will need more input.

Therefore, with this memorandum I am making the following request and change in schedule.

1. That fairly complete drafts be submitted as soon as possible from Stops 2 and 6.

2. That all Stops submit first drafts of their texts no later than June 1, 1973. (This date formerly was May 15.)

Please make every effort to satisfy these new requirements and contact me at once if you have any questions concerning them.

E.A. Richley

Edward A. Richley

Enclosure

cc:
All Stop Organizers
1973 Inspection Team

1003:EARichley:jms 5/15/73

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: 7212

June 21, 1973

MEMORANDUM

TO: September Inspection On-Site Committee, TID On-Site Building Managers and Fabrication Division

FROM: Manager/Technical Services On-Site Committee

SUBJECT: Status Report of All Inspection Stop Areas

There will be a meeting Tuesday June 26th at 1:00 p.m. in the Conference Room of Bldg. #15 (Utilities Bldg.). I will expect everyone to give a short status report on the area he is responsible for. There will be time before Tuesday's meeting for the on-site building managers to consult with the stop coordinators to make sure all areas of concern are being cared for. If you are unable to attend, please send an alternate.

Donald L. Thoennes

Donald L. Thoennes

Distribution:

1920/R. Schulke
7011/R. Billy
7013/D. Prok
7110/G. Mahnke
7111/E. Botos
71133/R. Fenderbosh
7211/H. Maslach
7213/N. Ricciardi
7222/B. Kluchnik
72301/J. Maclean
7231/L. Herman
7241/H. Wine
7242/R. Kravanya
7243/F. Dunn
7320/G. Speer
7322/J. Krudy
7430/T. Guzik
7430/F. Sejhar
7450/F. Kuchta
7461/C. Skony
7514/J. Sikora

cc:

7000/J. F. Connors
7011/R. A. Maurer
7100/J. C. Everett
7200/B. R. Harrison
7300/A. B. Szuhai
7400/F. VanHoff
7500/L. R. Howe
7212/Official File Copy

7212/DLThoennes:sh:6-21-73

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF: 7221

August 9, 1973

MEMORANDUM

TO: September Inspection On-Site Committee, TID On-Site Building Managers and Fabrication Division

FROM: Manager/Technical Services On-Site Committee

SUBJECT: Final Status Report of All Inspection Stop Areas

There will be a meeting Tuesday, August 14th at 1:00 P.M., in the Conference Room of Building no. 15 (Utilities Building). I will expect everyone to give a short status report on the area he is responsible for. There will be time before Tuesday's meeting for the on-site building managers to consult with the stop coordinators to make sure all areas of concern are being cared for. If you are unable to attend, please send an alternate.

Donald L. Thoennes

Distribution:

1920/R. Schulke
7011/R. Billy
7013/D. Prok
7110/G. Mahnke
7111/E. Botos
71133/R. Fenderbosh
7211/H. Maslach
7212/N.Ricciardi
7222/B. Kluchnik
72301/J. MacLean
7231/L. Herman
7243/F. Zubricky
7241/H. Wine
7242/R. Kravanya
7243/F. Dunn
7320/G. Speer
7322/J. Krudy
7430/T. Guzik
7430/C. Blaze
7450/F. Kuchta
7461/C. Skony
7514/J. Sikora

cc:
7000/J. F. Connors
7011/R. A. Maurer
7100/J. C. Everett
7200/B. R. Harrison
1003/E. A. Richley
7221/DLThoennes:pk:8/9/73
7300/A. B. Szuhai
7400/F. VanHoff
7500/L. R. Howe
7221/Official File Copy
1010/W. T. Olson

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

REPLY TO
ATTN OF 7221

August 15, 1973

MEMORANDUM

TO: TID On-Site Building Managers and On-Site Committee Members

FROM: Manager/Technical Services On-Site Committee

SUBJECT: Status Report to Vice Chairman of the September Inspection Committee

There will be a meeting Thursday, at 1:30 P.M., in room 225 of the Administration Building. We would like to review all the inspection stops to determine if there are any problem areas. If you are unable to attend, please send an alternate.

Donald L. Thoennes/pk

Donald L. Thoennes

Distribution:

7013/D. Prok
7110/G. Mahnke
7111/E. Botos
7211/H. Maslach
7212/N. Ricciardi
7222/B. Kluchnik
72301/J. MacLean
7231/L. Herman
8511/J. Jira
7243/F. Zubricky
7241/H. Wine
7242/R. Kravanya
7243/F. Dunn
7320/G. Speer
7514/J. Sikora

cc:
7000/J. F. Connors
7100/J. C. Everett
7200/B. R. Harrison
1003/E. A. Richley
7300/A. B. Szuhai
7400/F. VanHoff
7500/L. R. Howe
7221/Official File Copy

7221/DLThoennes:pk:8/15/73

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

August 16, 1973

REPLY TO
ATTN OF: 1010

MEMORANDUM

TO: Organizers, Stops 1, 2, 5, 6, 8, 1973 Lewis Inspection

FROM: 1010/Director, Technology Utilization and Public Affairs

SUBJECT: Presentation on October 2, 1973

Please hold in abeyance for a possible presentation on October 2 between 2:30 - 4:30 p.m., all props and visual aids, etc. for your presentation :

Stop 1 - Quieting the Fleet
10 x 10
E. W. Conrad

Stop 2 - Cleaner Skies
PSL 3 & 4
Robert E. Jones

Stop 5 - Space Electronics Technology
EPL
Edward Otto

Stop 6 - Energy for a Better Life
ERB, Center Section
Louis Rosenblum

Stop 8 - The Impact of Wear
ERB, West Wing
R. L. Johnson

Please have speakers on standby for presentation on that date. On October 3 and 4, the Lewis Research Center is hosting a Conference called, "International Conference on Solar Energy". About 100 scientists and managers, mostly from the United States and Canada are expected to attend. General Chairman is Frank Rom. Lewis coordinator is George M. Kaplan. Conference managers have invited "Early Birds" to tour Lewis on October 2, 2:30-4:30 p.m. If enough Early Birds want this tour, we will use Stops 1, 2, 5, 6, and 8.

The writer will give the introductory remarks. Transportation will be provided by the Conference. Lewis will provide bus guides.

Walter T. Olson

cc:
Stop 1 - E. W. Conrad
Stop 2 - Robert E. Jones
Stop 5 - Edward Otto
Stop 6 - Louis Rosenblum
Stop 8 - R. L. Johnson
1002/Mary Ruth Osgood
1003/Edward Richley
1960/Jack Powell
5214/George M. Kaplan

1010:WTOlson:kmb 8-16-73