

Eastern
Daylight
Saving
Time

1949 INSPECTION
LEWIS FLIGHT PROPULSION LABORATORY
NACA CLEVELAND
September 20, 21, 22, 1949

9:00 am Busses leave Cleveland Hotel for Laboratory

9:40 Registration in lobby of Administration Building; baggage checked in Room 111.

10:00 Opening Session for 1949 Inspection - Auditorium, Administration Building

10:30 Inspection of Laboratory in 8 groups designated by colors

	RED	WHITE	BLUE	GREEN	GOLD	BROWN	BUFF	GRAY
Compressor & Turbine Aerodynamics W-6, W-10 Eng. Res. Bldg.	*10:40	*10:40	11:50	11:50	**2:25	**2:25	3:35	3:35
Turbine Cooling W-2 Eng. Res. Bldg.	11:25	11:25	<u>12:35</u>	<u>12:35</u>	3:10	3:10	4:20 ***	4:20 ***
Heat Transfer; Turbojet Fuels CW-5 Eng. Res. Bldg.	11:50	<u>12:25</u>	10:40	11:15	3:35	4:10 ***	2:25	3:00
Rocket Research Rocket Component Test Laboratory	<u>12:25</u>	11:50	11:15	*10:40	4:10 ***	3:35	3:00	**2:25
Supersonic Propulsion Systems 8- x 6-ft. Supersonic Wind Tunnel	**2:25	3:35	3:35	**2:25	*10:40	11:50	11:50	*10:40
Inspection & Demonstration of 8- x 6-ft. SWT 8- x 6-ft. SWT	3:12	4:22 ***	4:22 ***	3:12	11:27	<u>12:37</u>	<u>12:37</u>	11:27
Turbojet Operation Problems Altitude Wind Tunnel Shop	3:35	**2:25	3:00	4:10 ***	11:50	*10:40	11:15	<u>12:25</u>
Materials, Stresses, and Vibrations CE-6 Eng. Res. Bldg.	4:10 ***	3:00	**2:25	3:35	<u>12:25</u>	11:15	*10:40	11:50

*Start first demonstration

**Resume demonstrations after luncheon

*** Luncheon in Auditorium begins at 1:00 ***Busses go to picnic area and leave for downtown starting 5:00pm EDT

Cleveland, Ohio.
September 14, 1949.

MEMORANDUM For Those Concerned

Subject: Dress Rehearsal of 1949 Inspection

1. The following schedule and instructions are to be observed:

9:00 am	Auditorium	Briefing meeting for group leaders
9:30 am		Depart for tour
9:40 am	8-x6-ft SWT	Supersonic Propulsion
10:33 am	8-x6-ft SWT	Inspection of Drive Motor & Test Section
10:50 am	CW-5, ERB	Heat Transfer; Turbojet Fuels
11:25 am	CE-6, ERB	Materials; Vibration & Stresses
1:00 pm	W-6, C&T	Compressor & Turbine Aerodynamics
1:45 pm	W-2, C&T	Turbine Cooling
2:10 pm	Shop, AWT	Turbojet Operational Problems
2:45 pm	Rocket Lab.	Rocket Research

- NOTES:
1. Visitors will ride in committee cars, group leaders in bus.
 2. Times indicated after briefing meeting will depend on arrival time of visitors and time required for comments at each stop and are, therefore, subject to change without notice. All times given for stops are expected to be earliest possible arrival time at that location.
 3. Sequence of stops for this rehearsal will not be changed without advance notice.
 4. Alternate speakers are to be present while their talk is being given and to receive comments and suggestions from visitors and laboratory staff.
 5. All charts, exhibits, demonstrations and auxiliary equipment are to be used during rehearsal that will be used during inspection. Items incomplete at this time must have suitable full-scale substitute in proper location so that speakers will have proper setting to give talk for final check of duration.
 6. Demonstration rooms are to be kept quiet during the rehearsal.

Edward R. Sharp
Edward R. Sharp,
Director.

NACA - Cleveland

Cleveland, Ohio,
September 13, 1949.

MEMORANDUM For Staff.

Subject: 1949 Inspection - Closing of Private Dining Room and
change of lunch periods.

1. During the 1949 Inspection, September 20, 21 and 22, the Private Dining Room will be closed at all times. However, the Cafeteria will be open as usual, except for the fact that all lunch periods during the three days will be moved back one-half hour. It shall be the duty of all supervisors to schedule their employees accordingly. The schedule of lunch periods is adjusted as follows for September 20, 21 and 22:

<u>Official Scheduled</u> <u>Lunch Period</u>	<u>Revised Schedule</u>
11:30	11:00
11:45	11:15
12:00	11:30
12:15	11:45
12:30	12:00
12:45	12:00

2. The cooperation of the staff is requested.

Warren E. Emley W.
for Robert C. Sessions,
Executive Officer.

WEE:kmb

Copy for Executive Offices
Division, Branch & Panel Chiefs
Section Heads (Circulate)
Bulletin Boards
Files

Mr. Hall

Cleveland, Ohio,
August 19, 1948.

MEMORANDUM For Those Concerned.

Subject: Exhibit locations for Second Annual Inspection.

1. Latest information indicates that the following areas will be used or passed through during the Second Annual Inspection September 28, 29 and 30:

Engine Research Building

W-2
W-5
W-7
CW-5
SW-21

Fuels and Lubricants Building
Room 204

Jet Propulsion Fuels Laboratory

Engine Propeller Research Building No. 2
Shop area and Test Cell No. 3

Jet Propulsion Static Test Laboratory
Spin Pits

Altitude Wind Tunnel
Shop and Test Section

Supersonic Wind Tunnel
Room 110
Test Chamber
Model Preparation Building
Air Dryer Building
Drive Equipment Building

2. The exact routes to be followed in approaching and leaving these various areas have not yet been determined, but you will be notified about this just as quickly as possible.

Robert C. Sessions

RCS:ac

Robert C. Sessions,
Executive Officer.

cc: Messrs. Hall, Herrmann, Moore, J. R. Braig, D. White,
H. White, S. Kramer, K. Kramer, W. Sponsler, Files.

J. H. Hall
Cleveland, Ohio
August 18, 1948

MEMORANDUM For Executive Officer.

Subject: Exhibit locations for Second Annual Inspection.

1. The following locations are included in the Annual Inspection scheduled for September 28, 29, and 30.

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W-5
W-7
CW-5
SW-21

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Spin Pits

Altitude Wind Tunnel

Shop and Test Section

Supersonic Wind Tunnel

Room 110
Test Chamber
Model Preparation Building
Air Dryer Building
Drive Equipment Building

2. It is requested that the necessary clean-up work be accomplished in the areas listed and the approaches to these areas. It may be desirable to use the front and rear entrances to the Engine Research Building, front entrance to the Compressor and Turbine Facilities Building, and rear entrance to SW-21. Entrance and exit to the other buildings will be from the front.

Jesse H. Hall

Eastern
Daylight
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LEWIS FLIGHT PROPULSION LABORATORY
NACA CLEVELAND
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Cleveland, Ohio.
September 14, 1949.

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10:50 am	CW-5, ERB	Heat Transfer; Turbojet Fuels
11:25 am	CE-6, ERB	Materials; Vibration & Stresses
1:00 pm	W-6, C&T	Compressor & Turbine Aerodynamics
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Edward R. Sharp
Edward R. Sharp,
Director.

NACA - Cleveland

Cleveland, Ohio,
September 13, 1949.

MEMORANDUM For Staff.

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2. The cooperation of the staff is requested.

Warren E. Emley W.
for Robert C. Sessions,
Executive Officer.

WEE:kmb

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Division, Branch & Panel Chiefs
Section Heads (Circulate)
Bulletin Boards
Files

Mr. Hall

Cleveland, Ohio,
August 19, 1948.

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Jet Propulsion Static Test Laboratory
Spin Pits

Altitude Wind Tunnel
Shop and Test Section

Supersonic Wind Tunnel
Room 110
Test Chamber
Model Preparation Building
Air Dryer Building
Drive Equipment Building

2. The exact routes to be followed in approaching and leaving these various areas have not yet been determined, but you will be notified about this just as quickly as possible.

Robert C. Sessions

RCS:ac

Robert C. Sessions,
Executive Officer.

cc: Messrs. Hall, Herrmann, Moore, J. R. Braig, D. White,
H. White, S. Kramer, K. Kramer, W. Sponsler, Files.

J. H. Hall
Cleveland, Ohio
August 18, 1948

MEMORANDUM For Executive Officer.

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2. It is requested that the necessary clean-up work be accomplished in the areas listed and the approaches to these areas. It may be desirable to use the front and rear entrances to the Engine Research Building, front entrance to the Compressor and Turbine Facilities Building, and rear entrance to SW-21. Entrance and exit to the other buildings will be from the front.

Jesse H. Hall

A70829

Cleveland, Ohio

SEP 14 1948

From Cleveland
To NACA

Subject: Material to be presented at the 1948 laboratory inspection.

1. There are transmitted herewith copies of the material to be presented at the eight demonstration set-ups included in the 1948 inspection for September 28, 29, and 30.
2. It would be appreciated if this material could be reviewed and this laboratory advised of any revisions that might require any considerable change at as early a date as possible.
3. Informal rehearsals are planned beginning September 14, and the first dress rehearsal is scheduled for September 21.

Jesse H. Hall

Edward R. Sharp,
Director.

JH:mas

Encs*

SEMI

OFF. CHIEF

SEP 14 5 34 PM 1948

RECEIVED
KVO

Cleveland, Ohio

U. S. GOVERNMENT
ESSENTIAL AIR MAIL

SEP 10 1948

From Cleveland
To NACA

Attention: E. E. Miller

Subject: Suggested Statement of Welcome to be included in the
booklet for the 1948 Inspection.

A70729

1. In accordance with a discussion with Mr. Victory on September 3, 1948, there is transmitted herewith a suggested Statement of Welcome for Dr. Hunsaker's signature to be included in the booklet for the Inspection.

2. September 24 has been set as the date for printing the booklet, therefore, it would be appreciated if the final copy for Dr. Hunsaker's Statement of Welcome could be forwarded to the laboratory several days in advance of this date.

Jesse R. Hall

✓ Edward R. Sharp,
Director.

JRH:mes

Enc*

25112

6-545710

SEP 10 9 43 AM 1948

VERA
HVV

WELCOME

It is my privilege to welcome you to this 1948 inspection of the flight propulsion research facilities of the National Advisory Committee for Aeronautics and to participate in renaming this laboratory the Lewis Flight Propulsion Laboratory. A70729

When the NACA was created in 1915, Congress specified that the function of the Committee should be to "supervise and direct the scientific studies of the problems of flight" and to "direct and conduct research and experiment in aeronautics." It is therefore appropriate that this third and youngest of the Committee's research centers be dedicated to Dr. George W. Lewis, who as Director of Research had the foresight and vision to provide the facilities required to carry out this function during a period of rapid advances in aviation and revolutionary changes in engine type.

It is our primary aim to utilize these research facilities to provide that fundamental information which you, the representatives of industry and the armed forces, require to continue this advance in aviation. These inspection tours are designed to acquaint you with the problems currently under study at the NACA laboratories and to familiarize you with the scope of our endeavors.

We sincerely hope that your visit will be both a profitable and an enjoyable one.

SEMI

STEALYND

25 10 11 1948

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MVCV

1949 INSPECTION

NACA-LEWIS FLIGHT PROPULSION LABORATORY

PROGRAM OF OPENING EXERCISES IN THE AUDITORIUM

September 20, 1949

10:05 to 10:25 A.M.

1. Background Remarks on NACA Objectives and Organization;
Welcome from NACA by Dr. Hugh L. Dryden, Director, NACA.
2. Welcome to Lewis Flight Propulsion Laboratory
By Dr. E. R. Sharp, Director, Lewis Laboratory.
3. Welcome from Lewis Staff; Statement of Research Objectives
and Outline of Tour by Abe Silverstein, Chief of
Research, Lewis Laboratory.
4. Group Photograph by Fred W. Lingelbach, Photolab.
5. Explanation of Tour Procedure by Willson H. Hunter, Lewis
Laboratory.

On September 21 and 22nd, Mr. John F. Victory, Executive Secretary, NACA, opened the program with general remarks on the importance of research in view of the present world situation. On September 22nd, Mr. Addison M. Rothrock, Assistant Director of Research, NACA, substituted for Dr. Dryden. The remainder of the program for these days was the same as for September 20th and the time taken was from 10:05 to 10:30 A.M.

Willson Hunter
SWT

NACA - Cleveland

Cleveland, Ohio,
September 23, 1948.

MEMORANDUM for All Concerned.

Subject: Special duty assignments for 1948 Inspection of the Cleveland Laboratory.

1. On September 28, 29, and 30, 1948, the dates of the 1948 Inspection, the following persons are assigned duties as listed below:

GROUP LEADERS, ASSISTANT GROUP LEADERS

<u>Group</u>	<u>Leader</u>	<u>Assistants</u>
Red	Eugene J. Manganiello	W. K. Koffel E. C. Wilcox
White	Lewis A. Rodert	Bemrose Boyd D. W. Male
Blue	Willson H. Hunter	L. R. Chapman C. Eian
Green	Newell D. Sanders	E. J. Krimzier J. Fovolny
Brown	John C. Sanders	F. J. Barina J. E. Farmer
Gold	W. K. Ritter	R. C. Kohl R. L. Johnson
Buff	V. G. Rollin	M. A. Zipkin R. O. Hickel
Yellow	A. E. Biermann	J. C. Nettles R. M. Standahar

Alternate: H. C. Barnett

DEMONSTRATION ATTACHES

<u>Building</u>	<u>Room</u>	<u>Telephone</u>	<u>Attaches</u>
ERB	W-2	2173	D. J. Michel J. J. Mahoney
ERB	W-5	4292	J. Heller R. P. Cochran
ERB	CW-5	2239	E. E. Dangle W. E. Scull
ERB	SW-21	3172	R. G. Koch R. C. Miller
F&L	204	2252 or 3260	F. E. Belles E. E. Stricker
100' fuel tower		4148	T. W. Reynolds J. M. Lamberti
SWT		2154 or 4218	S. Simpkinson J. Slomski
AWT		2295	D. Black B. Gowan
J.P. Static Lab, Sp. Pts		4159	G. M. Ault A. G. Holmes
Eng. Prop. Res. Bldg.		3286	R. J. Koenig R. Hood
Shop			

HOTEL CLEVELAND

Information Desk - Robert W. Schmidt
Bus Loading - John S. Brown (in charge)
Ray Madigan (Assistant)

BUS GUIDES

Group

Guide

Red	Don Guentert
White	John Egan
Blue	Tom Ray
Green	Art Bromeyer
Brown	Milton Lipas
Gold	Kenneth Barber
Buff	William Mitsch
Yellow	D. Caton

Alternate: Jim Akeroyd

HANGAR ATTACHES

Rudolph F. Kravanya (in charge)
William F. Lang
Joe Sikosky, Jr.
Albert Eaton
Frank Crichton
Donald Raith
Lloyd Backston

NACA AUTOMOBILE DRIVERS

J. Turman	Carl Sieber
Ben Forshey	Herman Kay
Lynn Mohn	Al Myers
Charles Sullivan	Allen Ramseur
A. Di Novo	

Alternate: T. Marcos

REGISTRATION CLERKS

Administration Building Lobby - 2228

Mary Louise Gosney - in charge

Rosemary Weiss	Jacqueline Kelch
Lucy Barina	Evelyn Fleming
Kay Brown	Carmelita Cleary
Irene Kives	Eileen Gibbons
Marjorie Sharp	Marguerite McComb
Ruth Campbell	Janette Sullivan
Annabelle McClain	Pat Norris

PRIVATE CAR DRIVERS

W. E. Dewey	M. E. Lipas
A. Krsek, Jr.	R. L. Clark
G. L. Hurt	

3. Demonstration attaches shall be at their stations by 9:30 a.m. Demonstration attaches shall assist in seating groups, preventing unauthorized persons from entering the exhibit areas, preventing unnecessary noises, and maintaining an orderly appearance of the exhibit areas. If any personal property should be left at any of the various exhibits, it shall be sent to the Central Message Center at Room 112 of the Administration Building. Demonstration attaches shall be responsible for prompt attention to incoming telephone calls and the relaying of messages.

4. Hotel Cleveland bus loaders shall be at the Hotel Cleveland by 8:00 a.m. Mr. Schmidt will be at the information desk from 7:30 a.m. until the departure of the last bus.

5. Bus guides shall take stations for their respective busses at 8:00 a.m. at the Hotel Cleveland and shall stay with their respective busses during all group movements.

6. Hangar attaches shall be responsible for assisting in guiding visitors to the entrance of the Administration Building. This type of travel is expected to be particularly heavy on September 29.

7. NACA automobile drivers shall report to Mr. R. A. Schleicher at 4:30 p.m., September 27, 1948 in the foyer of the Administration Building for instructions concerning their duties.

8. Central Message Center Dispatch Drivers shall be available to the Central Message Center for trips on or off the reservation in excess of those that can be handled by Committee cars.

9. Registration clerks shall report to Mrs. Gosney in the lobby of the Administration Building at 8:30 a.m.

10. Luncheon-ticket sales clerks shall report to Miss Wagner in the Administration Building foyer at 8:30 a.m.

11. Baggage-room attendants shall report to the Central Message Center at 8:45 a.m. Room 110 Administration Building shall be used exclusively for baggage. Coat-room attendants shall report to the auditorium coat room at 8:45 a.m. Coats shall not be checked, but the coat room shall be attended at all times.

JHH:imk

cc: Executive Offices
Division, Branch, & Panel Chiefs
Section Heads,
Personnel listed in Memorandum.

for Edward R. Sharp,
Director.

LUNCHEON TICKET SALES

Administration Building Foyer

Esther Wagner - in charge

Francis Shotwell

Jane Curwin

Agnes Esses

CENTRAL MESSAGE CENTER

Room 112 - 2223

Mary Hamman - in charge

TRAIN RESERVATIONS CLERK

Room 116 - 2221

Pauline Lucas

BAGGAGE AND COAT-ROOM ATTENDANTS

Baggage - Joe Bullock

Henry Meltzer

Cloak Room - Katherine V. Smith

Muriel J. Benes

Carol M. Lasch

AUDITORIUM USHERS

Kathleen O'Connell

Eileen O'Donnell

2. Group leaders and assistant group leaders shall report to Room 112 of the Administration Building at 9:00 a.m. on each day of the Inspection to obtain identification badges, arm bands, and color standards for their respective groups. The group leaders shall have complete charge of the groups and shall be responsible for making the necessary introductions upon arrival at each exhibit and for maintaining schedules. The assistant group leaders listed in the first column shall assist the group leaders in keeping the groups moving as a unit. The assistant group leader listed in the second column shall carry the color standard for the groups and shall keep the group leaders informed concerning the time in order that arrivals to and departures from exhibits may be made according to schedule.

1948 INSPECTION
LEWIS FLIGHT PROPULSION LABORATORY
NACA CLEVELAND

September 28, 1948

Eastern
Standard
Time

8:30 am	Busses leave Cleveland Hotel for Laboratory							
9:10	Registration in lobby of Administration Building; baggage checked in Room 111.							
9:30	Lewis Commemoration Ceremonies. Opening session for 1948 inspection							
10:30	Inspection of Laboratory in 8 groups designated by colors							
	RED	WHITE	BLUE	GREEN	BROWN	GOLD	BUFF	YELLOW
Turbine Research W-5, W-7 Eng. Res. Bldg.	* 10:40 am	4:10 pm	3:35 pm	3:00 pm	2:25 pm	12:25 pm	11:50 am	11:15 am
Compressor Research W-2 Eng. Res. Bldg.	11:15	* 10:40 am	4:10	3:35	3:00	2:25	12:25 pm	11:50
Combustion Research CW-5, SW-21, Eng. Res. Bldg.	11:50	11:15	* 10:40 am	4:10	3:35	3:00	2:25	12:25 pm
Fuels Research Fuels & Lubricants Bldg. Jet Propulsion Fuels Bldg.	12:25 pm	11:50	11:15	* 10:40 am	4:10	3:35	3:00	2:25
Supersonic Research 8- by -6-Foot Supersonic Wind Tunnel	2:25	12:25 pm	11:50	11:15	* 10:40 am	4:10	3:35	3:00
Materials & Stresses Research J.P. Static Lab.	3:00	2:25	12:25 pm	11:50	11:15	* 10:40 am	4:10	3:35
Controls Research Propeller Res. Bldg.	3:35	3:00	2:25	12:25 pm	11:50	11:15	* 10:40 am	4:10
Turbojet Engine Research Altitude Wind Tunnel	4:10	3:35	3:00	2:25	12:25 pm	11:50	11:15	* 10:40 am

Luncheon in Auditorium at 1:00 pm.

Busses leave for Downtown Cleveland at 4:45 pm.

*Start

||Luncheon

Wind Tunnel & Flight Division

8' x 6' Tunnel - Discussion of supersonic research.

Walk thru tunnel buildings.

A.W.T. - Discussion of after-burning work done on
TG-190 and icing work done on TG-190. Not to leave
ground floor.

Hangar - Discussion of results of drop tests of ram
jet and flight icing of 24-C.

Icing Tunnel - Inertia separation.

Locations to be visited

New Control Room & DeLaval Compressors

C. & T. Wing

Burner Test Cells in E.R.B.

J.P.S.L.

E.P.R.B.

Fuels Systems Laboratory

Hangar

A.W.T.

8' x 6' Tunnel

Icing Tunnel


Robert C. Sessions,
Acting Director.

RCS:at

cc: Service Division Chiefs

Mr. Sessions (5)

Mr. Jesse Hall

Mr. H. Underwood

Mr. H. White

Mr. Sponsler

Service Scheduling Office

Files

312.14/
Cleve.

- 5 -

NACA - Cleveland

Cleveland, Ohio,
July 14, 1948.

MEMORANDUM For Those Concerned,

Subject: Annual Inspection, October 6, 7, 8, 1948, Tentative Program.

1. The following information is tentative but will serve until revised as a basis for preparation work for the Annual Inspection:

Engine Performance & Materials Division

TG-100, E.P.R.B. #3, Effect of changing nozzle area and shift of power from propeller to jet.

Fuel Systems Lab. - Controls demonstration

Spin Pit - J.P.S.L., Materials & Stresses Work - Induction heating system

E.P.R.B. - Air ejectors

Gas Generator Compound Engine in E.R.B., C-6

Compressor & Turbine Research Division

Higher pressure ratio per stage on axial flow blowers

Centrifugal Compressors

Mixed Flow

Turbine Cooling

New research equipment for larger scale work. Specially designed equipment.

New Control Room and walk thru Compressor Room

Fuels & Thermodynamics Research Division

SW-21, Burners

100 Ft. Tower

Metallic Fuels - Demonstration at J.P.S.L., Aluminum Burning