



Department of Energy

Washington, DC 20585

OCT 10 2000

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Andrea Widener
The Valley Times
127 Spring Street Pleasanton, CA 94566

Re: OHA Case No. VF A-O608
FOIA Request No. 2000-0K-61

Dear Ms. Widener:

This letter concerns the Freedom of Information Act (FOIA) Appeal that you filed with the Office of Hearings and Appeals of the Department of Energy (DOE) on September 13, 2000. Your Appeal concerned a determination of the DOE's Oakland Operations Office to withhold the names of participants and observers in the ongoing review of the National Ignition Facility Project, known as the Lehman review.

On October 6, 2000, the Office of Hearings and Appeals received a copy of a letter to you from Douglas A. Ash of the Oakland Operations Office. In the letter, Mr. Ash states that "it has been determined that the names of the observers and participants [in the Lehman review], which were previously withheld, are now releasable."

Since the Oakland Operations Office is releasing the records at issue, we will dismiss your Appeal as moot. If you have any questions about this letter, please call Warren Gray of the Office of Hearings and Appeals at (202) 426-1527.

:fi:~+~t Thomas O. Mann

Deputy Director
Office of Hearings and Appeals

cc: / Roseann Pelzner
DOE Oakland Operations Office 1301 Clay Street
Oakland, CA 94612-5208



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AUG. 24. 2000

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12: 23PM

NO. 972

AGENDA

DOE REBASELINE V ALIDAnON REVIEW
of the NAnONAL IGNITION FACILrtY (NIF) PROJECT

MONDAY -FRIDAY. AUGUST 7 -11. 2QOf!

P.2

MONDAY. AUGUST 7.2000 M BLDG. 543 AUDITORIUM

7:00 a.m. Transport Committee from Hampton Inn, Livennore to LLNL Westgate Badge
Office! .

7:30 a.m.

7:50 a.m.

8:00 a.m.

9:00 a.m. 9:10 a.m.

Badging at Westgate Badge Office

Hospiltality .

DOE Full Committee Execupve Session

DOE (j)pening Remarks
SEAB trask Force FIndings

9:30 a.m.

LLNL [Director's **Overview**

9:40 a.m.

9:55 a.m.

10:10

11:45

12:30 1:30 2:30 3:30

a.m. a.m. p.m.

p.m.

p.m.. p.m.

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Break[

NW ~ew /Description

Lunch]

NIP Pi1oject Management

System\ S Engineering and Risk Analysis Cost, Schedule, and Contingency

Safety !video and TraI\ Sport to NIF Site

3:45

5:00

5:10

7:15

7:30 9:00

p.m.

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p.m. p.m.-

NIP Tqur

Trans~rt to Bldg. 543

DOE ElXecutive Session

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Transpbrt Committee to Hampton

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Kent R. OeJrichl
Jon Teevan
Bldg. 543, Lobby
Bldg. 543, Auditorium

Kath~ Carlson John McTague

C. Bruce Tarter

George H. Miller

Edward I. Moses
Bldg. 5431 Lobby Edward I. Moses
Mary L. Spaeth Ralph W. Patterson
Bldg. 581
LLNL Driver

**LLNL Driver ..
Bldg. 543, Auditorium.**

Bldg. 125, West Cafe LLNL Driver

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AGENDA

DOE REBASELINE V ALmAn ON REVIEW
of the NATIONAL IGNITION FACILITY (NIP) PROJECT

MONDAY -FRIDAY. AUGUST 7 -11-20gg

TUESDAY. AUGUST 8.2000 -BLDG. 543. AUDITORIUM

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7:30 a.m~

7:50 a.m.

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11:00

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a.m.

p.m.

Transport Committee from Hampton hm, Livermore to LLNL Bldg. 543 .

Hospitality

Introduction of Project Management

Introduction to Paxallel Sessions Transport to Bldg. 391

Lunch

Parallel Subcommittee

Presen ta lions/Discussions

LLNL Driver

Bruce E. Wamer / Management Team

Bruce E. Wamer LLNL Drivers

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Bldg. 391; Lobby

Subcommittee	Chairperson	Point of Contact	Bldg/Room	Phone #
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Project Management Jay Marx Cost/Schedule George Coward Large Optics Michel Andre Line-Replaceable-Units George Neil Int~grated Compo
 ConttolSys~m Rusty Humphrey CF/Beampath InfstastTUctIjre System TIDI McClusky ES&H Richard Hislop Procw-ement Gene DeSaulinier
 Assembly, Installation. and Andrew Hutton Commissioning

Bruce Warner

Ralph Patterson JackCampbeU
Rick Sawicki.
Paul VanArsdall Valerie Roberti Jon Yatabe
Jeff Atherton
MarySpaetb

481/2083 481/2005
3925
481/1000 391/1200
490/1~2
481/1003 48112)08
3725/314

4:30 p.m. DOE Subcommittee Executive
Session

5:00 p.m. DOE Executive Sessions .Transport Committee to Hampton hUt, Livermore
when meeting adjourns

Break Out Rooms

Bldg. ~81, A~dito~um
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AUG. 24. 2000

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12: 24PM

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AGENDA

DOE REBASELINE VALIDATION REVIEW
of the NATIONAL IGNmON FACLn'Y (NIF) PROJECT

MONDAY -FRIDAY. AUGUST 7 -11, 2000

P.4

~DNESDA Y. AUGUST 9. 2000 - BLDG. 481

_7:30 a.m. Transport Committee from LLNL Driver Hampton Inn, Livermore to LLNL
Bldg. 481

8:00 a.m. Parallel Subcommittee

Presentations /Discussions

Subcommittee ' Chairoen;on Point of Contact'" Blde:/RootD Phone!

Project Management Jay Marx Bruce Warner 481/2083 Cost/Schedule George Coward Ralph Patterson 481/2005 Large Optics Michel Andre Jack Campbell 3925

Line-Replaceable-Units George Neil Rick Sawicki 481/1000 Integrated Compo Control System Rusty Humphrey Paul VanArsdall 391/1200 CF/Beampath Infrastructure System Jim McClusky Valerie Roberts 490/1402 ES&H

Richard Hislop Jon Yatabe 481/1003 Procurement Gene DeSaulnier Jeff Atherton 481/2108 Assembly, Installation, and Andrew Hutton Mary Spaeth 3725/314

Commissioning

12:00 p.m.

12:45 p.m.

Lunch (available 11:30am to 1pm) Bldg. 39L Lobby

Parallel Subcommittee

Presentations / Discussions

Subcommittee Chairperson Point of Contact Bldg/Room Phone-#

Project Management Jay Marx Bruce Warner 481/2083 Cost/Schedule George Coward Ralph Patterson 481/2005 Large Optics Michel Andre Jack Campbell 3925

Line-Replaceable-Units George Neil Rick Sawicki 481/1000 Integrated Compo Control System Rusty Humphrey Paul VanArsdall 391/1200 CF/Beampath Infrastructure System Jim McClusky Valerie Roberts 490/1402 ES&H Richard Hislop Jon Yatabe 481/1003 Procurement Gene DeSaulnier Jeff Atherton 481/2108

Assembly, Installation, and Andrew Hutton Mary Spaeth 3725/314

Commissioning

3:30 p.m. DOE Subcommittee Executive

Sessions

DOE Executive Sessions

4:00 p.m.



Break Out Rooms

Bldg. 481, Auditorium

*- Transport Committee to Hampton Inn when meeting adjourns

LLNL Driver

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AGENDA

DOE REBASELINE VALIDATION REVIEW
of the NATIONAL IGNITION FACILUY (NIF) PROJECT

MONDAY -FRmA y" AUGUST 7 -11. 2QO~

THURSDAY, AUGUST 10, 2000 .BLQG. 481

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7:30 a.m. Transport Committee from --
Hampton Inn, Livem\ore to LLNL
Bldg. 481

8:00 a.m. Subcommittee Working Sessions
Subcommittee Chairperson Point of Contact BI~oom Phone *It* Project Management Jay Marx. Bruce Warner 48lnO83
Cosr/Schedule ~orge Coward Ralph Patterson 481/2005
Large Optics Michcl Andle Jack Campbell 3925 Line-Rep1ace8.ble-Units George Neii Rick Sawicki 48 1/1 (XX)
Integrated Compo Control System Rusty Humphrey Paul VanArsdall 391/1200
CF/Beampath Infrastructure System Jim McCusky Valerie Roberts 490/1402. :-:-
ES&H Richard Hislop Jon Yata.be 481/1003="-' Pr~urement Gene DeSaulinier Jeff Atherton 481/2108
Assembly, Installation, and Andrew Hutton Mar:t Spaeth 3725/314
Commissioning .

10:00 a.m.

12:00 p.m.

1:00 p.m.

Cost Anafysis Sheets to Cost/Schedule SubcomIriittee
Lunch (available 11:30am to 1pm) Subcommittee Working Sessions

LLNL Driver



Break Out -Rooms

Bldg. 391, Lobby

Subcommittee	Chairperson	Point of Contact	Bldg/Room	Phone #
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Project Managemt,nt Jay Marx
 Cost/Schedule George Coward
 Large Optics Michel AndIe,
 Line-Replaceable-Units. George Neil '
 Integrated Compo Control System Rusty Humphrey
 CF/Beampath Infrastructure System Jim McClusky
 ES&H Richard Hislop
 Procurement Gene DeSaulinier
 Assembly, Installation, and Andrew Hutton
 Coll1:missioning

2:00 p.m. DOE Pull Committee

Executive Session. -.Close-Qut Dry Run -, -

* Revise Dry Run Presentations and provide to Terri,before leaving.

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 Jack Campbell Rick Sawicki
 Paul VanArsdall
 Valerie Roberts Jon Yatabo
 Jeff Atherton
 Mary Spatth

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 481/1003
 4S1/2108 3725/314

Bldg. **481** Auditori~

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LLNL Driver

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AGENDA

DOE REBASELINE VALIDATION REVIEW
of the NATIONAL IGNITION FACILITY (NIF) PROJEcf

MONDAY -FRIDAY. AUGUST 7 -11. 200Q

FRIDAY. AUGUST 11. 2000 -BLDG. 543

P.6

8:00 a.m. **8:00 a.m.**

8:30 a.m.

Hospitality
Provide Final Draft Report on Disk
to Tem
DOE Sununary and Close--out with Management

10:30 a.m.

Adjourn

Bldg. 543, Lobby
Bldg. 543, Lobby

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Host:

Technical Contact:

~otocolRep:

Classification:

Agenda Date:

C. Bruce Tarter, Director
George H. Miller; Associate Director NIP
Bruce E. Warner, N1F Deputy Project Manager,


Sharon J. Blackwell, (225) 422-5122, E-mail 
Sheryl E. Rikard, (225) 422-5122, E-mail 

Unclassified ..
August 2, 2000



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12: 25PM

Chairperson:

Deputy Chairperson:

NO. 972

Contact List

P.?

Kathleen Carlson, Bldg. 481/Rm 1146,

(925) 423-5199

Dan ~an, B~g. 481/Rm 1210, pager:

(925) 424-2659

DOE Contact:

**Administrative Contacts: LLNL - Stacy Castro, ([REDACTED], E-mail [REDACTED]
DOE - Terri Batuyong, [REDACTED], Bldg. 481/Rm 2051**

Scott Samuelson,

(925) 423-0593, E-mail samuelson4@llnl.gov

Message Center:

Located in Building',481 in the lobby area phone: 925-422-0400, fax; 925-423--5957

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RUG. 24. 2000



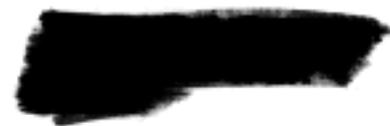
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NO. 972

Department of Energy
Germantown, MD 20874.1290

June 20, 2000

Dr. Michel Andre
CEA Technologies



Dear Dr. Andre:

P.8

Thank you for agreeing to participate in the Department of Energy (DOE) review of the National Ignition Facility (NIF) Project. This review will be conducted at LaMence LiverDlore National Laboratory (LLNL) on August 7-11, 2000. Your expert advice and assistance will be of great value to DOE.

As stated in General Gioconda's memorandum dated June 15,2000, the purpose of the review is to validate the revised project baseline currently under development, and identify any issues that must be addressed so that the Department can have a high level of confidence that the project will be successfully executed according to that baseline.

Enclosed for your infonnation are the follo\\ing:

- Enclosure 1
- Enclosure 2
- Enclosure 3
- Enclosure 4
- Enclosure 5
- Enclosure 6
- Enclosure 7
- Enclosure 8
- Enclosure 9

- Charge to the Committee
- DOE Review Subcommittees and Participants
- Draft Agenda
- Subcommittee Review Topics and Descriptions
- Draft Committee Report Outline Address/Phone Listing of Participants
- NIF Project Points of Contact
- Security Information-repl.v to NIF by July 10 Maps/Directions

The review will begin on Monday, August 7, at 8:00 a.m. at LLNL in die Auditorium-Building 481, with a DOE Full Committee Executive Session followed by pJenaJy presenta.tions. On Tuesday, A~t 8, there will be parallel subcommittee sessions devoted to presentations and in-deptb- reviews. Subcommittee sessions will continue on Wednesday and Thursday, August 9- 10, with further reviews and report writing. Each day's session will be followed by a DOE Executive Session in the late afternoon. On Friday, August II, 200~ the Cc:DDmittee will adjourn at 10:30 a.m. after a closeout meeting with'1!JF Management pmo~l

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There is a block of rooms available at, the Hampton Inn -Livermore (2850 Constitution Drive, LiveInIore, California 94550). You should contact the hotel directly (925-606-6400) by July 10t to reserve a room. Please mention the block namet "NW Review" to receive the special room rate of\$99.00per.t. For committee members requiring reimbursement, please contact Tom. Finn

at 207-286-197 (tom.finn@ns.doe.gov)

We would like the chaitpersan of each subcommittee, after conferring with the memben of his subcommittee. to provide the appropriate NIF project points of contact (Enclosure 7) with a list of issues and or questions that need to be addressed. Questions should stay within the context of the review charge. Please make sure that each point of contact has your subcommittee's questions no later than July 21) 2000. The agenda for the subcommittee presentations by the project and the time allotted for follow-up discussions between the subcommittee and the project should be agreed to by the DOE subcommittee chair and the NIF project point! of contad:.

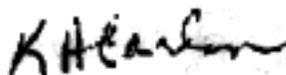
The NIF group will mail to you directly the technical/management/cost/schedule documenm and maps of the area (airports/hotel/LLNL). You should receive the introductioo material by July 24 and more detailed information by July 31. The cost estimate and associated documents used during the review are to be treated in confidence. They are preliminary in nature, ~ their contents are sensitive. Therefore, review participan~ are not to disseminate or copy documents or release cost or design information.

If possible, it would be very useful if you could bring your portable computer with word processing software (preferably MSWord for MAC or ffiM).

We greatly appreciate your willingness to take time from your busy schedule to assist DOE in evaluating the NW project. This is a very significant review for DOE, UNLt and NIF. Should yo~~e -- questions, p~ease contact Dan Lehman at '1111111111

[Redacted signature area]

Sincerely,



Kathleen Carlson Chairperson
DOE Review Committee

Enclosures

cc: **Distribution**



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Daniel R. Lehman
Deputy Chairperson
DOE Review Committee

AUG.24.2000

12: 26PM

- Distribution:
- T. Gioconda, DP-1, w/o enclosures R. DeGrasse, DP-3, w/o enclosures W. Clark, DP-6
 - D. Miotla, DP-6
 - I. Anderson, DP-7
 - M Hollander, DP.7
 - T. Finn, DP- 7
 - D. Crandall, DP-IO
 - A. Levy, DP-IO -
 - J. Van Fleet, DP-13
 - C. Keane, DP~131
 - I. Landers, DP-40, w/o enclosures
 - I. Decker, SC-I, w/o enclos~
 - M Johnso~ SC-3, w/o enclosures
 - P. Ross, DOE/OECM
 - C. Yuan-Soo Hoo, DOE/OAK
 - s. Samuelson, DOE/OAK
 - S. Brinker, DOE/OAK
 - M. Domagala, DOE/OAK
 - D. Eddy, DOE/OAK
 - Ho Gladden, DOE/OAK
 - B. Hilliard, DOE/OAK
 - Eo Knuckles, DOE/OAK
 - J. Wallach, DOE/OAK
 - S. Ma, DOE/OAK
 - E. Rountree-MacLennan, DOE/OAK Ro Scott, DOE/OAK
 - K. Zahora, DOE/OAK

G. Miller, LLNL
Eo Moses, LLNL
B. Warner, LLNL
S. Castro, LLNL
H. Grunder, TJNAF
Do Grace, Burns and Roe
D. Schumacher, UC

DOE/OAK per CC/phone SSamuelson 6/19/00

DP-7 attached TFinn 6/19/00

SC-81

**DLehman
6/20/00**

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DOE/NV
per DL/phone KCarlson 6/19/00

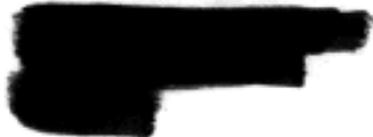
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AUG. 24. 2000

12: 26PM

Identical Letters Sent To:
Dr. Michel Andrea CEA Technologies



Dr. WIUiam Barletta

Lawrence Berkeley National Laboratory

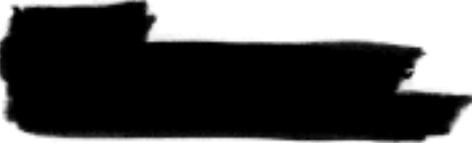


Mr. Iohn Cornuelle

Stanford Linear Accelerator Center



Mr. George Coward
Los Alamos National Laboratory



Dr. Frank Crimi



Mr. Rudy Damm

Oak Ridge National Laboratory



Mr. Gene DeSaulnier



Dr. Robert Diebold



Mr. Joseph Drago
U.S. Department of Energy
Argonne Group

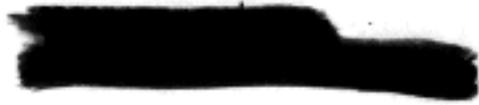


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Dr. John L Emmett



Mr. Arnold Epstein
U.S.

Department of Energy



Mr. Robert FOISt
U.S. Department of Energy



Dr. Damon Giovanielli



Mr. RicbaId Hislop
Argonne N ati QUa] Laboratory



Dr. Rusty Humphrey.
Stanford Linear Accelerator Center



Dr. Andrew Hutton

Thomas Jefferson National
Accelerator Laboratory



Mr. Stephen Lewis
Lawrence Berkeley National Laboratory



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12: 26PM

Mr. Phil Lindquist
California Institute of Technology



Dr. Paw Lisowski
Los Alamos National Laboratory



Dr. Steve Loucks
University of Rochester

Laboratory for Laser Energetics



Dr. Jay Marx

Lawrence Berkeley Laboratory



Mr. Jim McClusky
Pacific Northwest National Laboratory



Dr. Robert McCrory
University of Rochester
Laboratory for Laser Energetics



Mr. Barry Miller

Oak Ridge National Laboratory



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Dr. George Neil
Thomas Jefferson National
Accelerator Laboratory



Dr. John Peoples
Fermi National Accelerator Laboratory



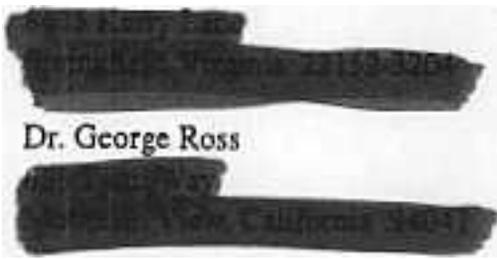
Dr. Jim Powell

Sandia National Laboratories



Dr. James G. Renfro

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Mr. Tom Shea
U.S. Department of Energy



Dr. Michelle Shinn
Thomas Jefferson National
Accelerator Laboratory



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Dr. Michael Thuot
Los Alamos National Laboratory



Dr. Timothy Toohig
U.S. Department of Energy

[REDACTED]

Mr. Jim Triplett
Lawrence Berkeley Laboratory

[REDACTED]

Dr. Leonard Victorino

[REDACTED]

NO. 972

Mr. Bob Wunderlich
U.S. Department of Energy

Argonne Group

[REDACTED]

Mr. Hans Vogel
Pacific Northwest National Laboratory

[REDACTED]

Mr. Doug Weaver
Sandia National Laboratories

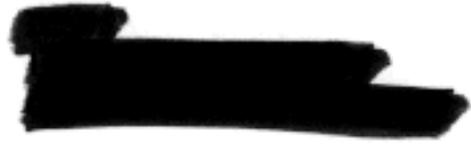
[REDACTED]

Dr. Stan Whitcomb

California Institute of Technology

[REDACTED]

Mr. Jim Winter
U.S. Department of Energy



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Enclosure 1

Charge to the Committee

AUG. 24. 2000



12: 27PM

NO. 972

Department of Energy
Washington, DC 20585
June 15,2000 .

MEMORANDUM TO: Kathleen A. Carlson

Member, Joint Chiefs of Staff

FROM : Major General, USAF, Acting Deputy Administrator

for Defense Programs

Subject

DOE Review of National Ignition Facility Project

P.S.

I hereby request that you organize and lead a review of the National Ignition Facility (NIF) project at Livermore, California during the week of August 7, 2000. Daniel Lehman from the Office of Science has agreed to serve as your Deputy. The main purpose of this review is to validate the revised project baseline currently under development, and identify any issues that must be addressed so that the Department can have a high level of confidence that the project will be successfully executed according to that baseline.

The NIF Project is currently on track to deliver a new baseline responsive to the latest ESAAB guidance no later than August 1, 2000. It is critical that we identify and address any fundamental flaws in this baseline prior to the early September ESAAB meeting at which the Board will consider approving a change action to adopt the new baseline. A revised project data sheet appropriately reflecting the approved baseline must be delivered to Congress by mid-September 2000.

Please focus your committee's attention on the following:

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Is the project being managed in an appropriate manner to assure a high probability of successful execution?

Have the appropriate technical, cost, and schedule baselines been established across the project? Are they reasonable, self-consistent, executable, and credible?

Is there adequate cost and schedule contingency for this stage of the project? - Are the key assumptions and associated risks well defined? .

Are the other related activities that support NIF and their interfaces with the project appropriately defined? Are these

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DOE Review Subcommittees and Participan

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MaJAa'H DOp.PD- A au!lamlq3'H -'J,Iau] JO Juaw8J_mo

Jim Anderson, DQE/DP

Man: HoUander. OOE/DP

Tom Finn, DOFJDP

Chris Keane, DOFIDP

Allen Levy, DOE/DP

Hemwm Gnmder, TJLAB

Don Schumacher, UC

Scott Samuelson. DOE/OAK Camielle Yuan-Soo Hoo, DOE/OAK

M arty Dam agaJ B. DO F)O AK

Department of Energy Rebaseline Validation Review
of the NationBlignitioD FB£Uity (N1F)

Augu..t 7-11, 2000

Kathleen Carlson, DOE/NV, Chairpenon

Daniel R. Leb maD, DOEiSc. Deputy CllaiJpen41D

ObserveR

BdwaJd Knuckles, OOE/OAK

June Wallach, DOE/OAK

Bob HilJiard, DOE/OAK

Eileen ROUJ1~McLennan, DOE/OAK Helen Gladden, DOFJOAK

Doug Eddy, DOEJOAK

Sam Brinker, DOE/OAK

Sieve Ma, OOFJOAK

Ken Zahom, OOFJOAK

Richard Scott, DOE/OAK

Paul Ross, OOE/OECM

Don Grace, Bums and Roe

Wall KraDtek, Bums and Roe Vein Peterson. Bums and Roe

Scott Foster, Buma and Roe Bob Morgan. , Bums and Roe

Nonn Lacy. , Bums and Roe DiDOS Nicolaou, Bums and Roe

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Draft Agenda

AUG. 24. 2000

12: 28PM

Department of Energy Rebaseline Validation Review
of the National Ignition Facility (NIF) Project

DR.-\Fr AGENDA

Monday, August 7, 2000 — Building 481, Auditorium

8:00 am 9:00 am 9:15 am 9:20 am

9:50 am

10:15 am 12:00 pm 12:45 pm 2:45 pm 5:00 pm 6:30 pm

DOE Full Committee Executive Session DOE Opening Remarks
LLNL Welcome
NIF Mission
Break
NIP Overview
Lunch
Proj~ Overview
NIP Tours
DOE Executive Session
Adjourn

Tuesday, August 1~20P-!!

8:00 am
11 :00 a.in

12:00 pm
1 :00 **pm** 4:30 **pm**
5~00 **pm**
7:30 **pm**

Systems Engineering, Risk Analysis, Technology Status

Parallel Subcommittee Presentations/Discussions

- 1) Large Optics
- 2) Line-Replaceable Units
-Laser Area Systems and Target Area Systems
- 3) Assembly, Installation, and Commissioning
- 4) Integrated Computer Control System
- 5) Conventional Facilities and
Beam path Infrastructure Systems
- 6) Environment, Safety and Health
- 7) Project Management and
Cost, Schedule, and Funding
- 8) Procurement

[Each session will begin with an overview] Lunch

Parallel Subcommittee Presentations/discussions (cont.) DOE Subcommittee Executive Sessions

DOE Executive Session

Adjourn

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Wednesday. AU2Ust 9.2000

8:30 am 12:00 pm 1:00 pm 3:30 pm
4:00 pm 7:30 pm

Parallel Subcommittee Presentations Discussions Lunch
Parallel Subcommittee Presentations Discussions DOE Subcommittee Executive Sessions
DOE Executive Session
Adjourn

Thursday. Ag2Ust 10. 2000

8:30 am
10:00 am
12:00 pm 1:00 pm 2:00 pm 6:00 pm

Subcommittee Working Sessions
Cost Analysis Sheets to Cost/Schedule Subcommittee
Lunch
Subcommittee Working Sessions
DOE Full Committee Executive Sessions Close-out Dry Run Adjourn

Friday. Aue.ust 1.1. 2000 -Buil~2: 481 Amtgrium

8:30 am 10:30 am

DOE Summary and Close-out Mth NIF Management
Adjourn

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N.L.23.1
 N.L.3.1.1.1.1 N.L.3.1.1.2.1
 N.L.3.1.2.1.1
 N.L.3.1.2.1.1
 N.L.3.1.2.3.1
 N.L.3.2.1.1.1
 N.L.3.2.1.1.2 N.L.3.2.1.1.3 N.L.3.2.1.2
 N.L.3.2.1.7.1 N.L.3.2.1.6.1 N.L.3.2.1.8.1
 N.L.3.2.1.9.1

DefOrtable Mitror Assembly
 SF1 Optic
 SF2 Optic
 LM2 Optics
 PEPC KDP Crystal
 PEPC Window
 LM3 Optic
 Polarizing Optic
 SF3 Optic
 SF4 Optic
 Brewster Glass
 Arrangement User Slab
 Roving Pickoff Mitror Assembly
 Large Optics Damage Ins(Eclon (LODI) SYSTEM
 LM4 Optics
 LM5 Optics LM6 Optics LM7 Optics
 LM8 Optics
 Doubler Crystal
 Tripler Crystal
 Final Focus Lens
 10MW Vacuum Window
 Beam Sampling Gating
 Debris Shield
 1 w Diffusive Optic Plate
 3.. Diffusive Optics Plate

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Line- Replaceable- Units

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LRUs are the modular assemblies that are designed for routine maintenance and form the laser and optics special component. Their modularity makes them relatively easy to install, refurbish and reinstall into the NIP beam pad. There are many different types of LRUs for NIP including mounted mirror systems, Pockels cell optical switches (EPC),

flashlamp assemblies, and debris shields to name a few.

NWBS ElementS:

- NL.1.1.2 NL.1.1.3 N.L.I.1.5
- NL.1.2.1.1
- NL.1.2.1.1.4 N.L.1.2.2.1
- N.L.J.2.2.2 NL.I.2.2.3
- NL.1.2.3.1 NL.1.2.~.2.1
- NL.I.2.3.3
- NL.1.2.4.1.1
- NL.I.2.4.1.2
- NL.1.2.4.2.1 NL.1.2.4.2.1.4
- N.L.I.2.4.2.2
- NL.I.2.4.2.2.4
- NL.1.2.4.S
- NJ.1.3.1.1 NL.1.3.2.2 N.L.I.3.2.3
- N.L.2.1.2.1 NL.2.1.2.3
- NL.2.1.3 NL.2.2.1 N.L.2.2.2
- NL.2.3.1
- N.L.2.3.2
- N.L.3.1.1.1 N.L.3.1.1.2 N.L.3.1.2.1 N.L.3.1.2.2 NL.3.1.2.3 NL.3.2.1.1 N.L.3.2.1.6
- N.L.3.2.1.7
- N.L.3.2.1.8 N.L.3.2.1.9

~ liW (PAM) S ys !em

- PreAmplifier Beam TnInSIX)n System (PASTS) Inpul Sensor Package (ISP)
- LMI Line Replaceable Unit (LRU)
- LMI Survey LRU
- Spatial Filler 1 (SF I) Line Rep~le'Unil (LRIT) Spatial Filter 2 (SP2) Line Replaceable Unit (LRU) CSP Pinhole Tower LRU
- LM2 Line Replaceable Unit (LKU)
- PEPC Line Replaceable Unit (LRU)
- LM3 & ~larizer line Replaceable Unit (LRU) Spatial Filter ~ (SFJ) Line Replaceable Unit (LRIT) Spatial Filter 4 (Sf4) Line Repl~le Unit (LRU)
- TSF Alignment Tower LRU
- TSP S11JTt)gate Alignment To~er
- TSF Diagnost]c Tower LRU
- TSP S11ITOGate Diagnostic Tower
- OutpUt Sensor Package (OSP)
- PCS Module Subsystem
- Amplifier LaF.er Slab Line Replacsble Unit (LRIT) Amplifier Flash Lamp Line RepJaceabJe Unit (LRIT) Roving Pickoff Mi!l'Or Assembly
- Ro~ing Pickoff Mirror Imnslation Sys~m
- Roving Calorimeter
- OneOmep (1w) Diagoostics
- ~ Omega (3w) Diagnostics
- Large Oplics Damage Ins~tion (LODI) System Final Optics Dama8e Inspection (FaD!) SYSrml Laser Min'Or 4 (LM4) LR U
- Laser Mirror 5 (LM5) LRU
- Laser Mitror 6 (LM6) LR U
- ~ MiITOr 7 (L..M7) LR U
- Laser M]m)r 8 (LM8) LR U
- Final Oplics Cell (RX:)
- Debris Sbiold (DS) LRU
- Beam Sampling Grating (BSG) LRUs .
- 1 w Diffmctive Optic Plate (1.00p) LRUs
- 3w Diffra:live Optics Plate. (3wDOP) LRUs

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Assembly, Installation, Commissioning

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This encompasses activities associated with the assembly, installation and commissioning of NIF equipment. This topic includes cleaning and processing of large optics, assembly and test of LRUs. Transport, handling and installation of LRUs and the sequence of steps leading to full operation of NIF.

NWBS Elements:

- NA**
- NA.2
- NoM.3
- N.M.9

Assembly Installation and Refurbishment Equipment
 Assembly and Refurbishment System
 Pmdn cti on. A s sembi y. Installa li ODoR efu rb is bmen t (PAIR) S repMma gemcat Systetr1 En~g

Integrated Computer Control Systems

NIF's distributed control system integrates approximately 60,000 control points using a network of 300 high-performance computers and several hundred embedded controllers. Software for the control system is built from a reusable framework of object-oriented patterns. Applications are divided into supervisor systems, including a shot director, beam control, laser diagnostics, target diagnostics, PE, injection laser, power conditioning, and shot services. Each supervisor integrates 20 kinds of front-end processors, including motor controllers, video digitizers, laser energy sensors, deformable mirrors and so on.

NWBS Elements: NL.1.4

- N.L.3.4**
- N.L.4**
- N.C

Main Laser System Control
 LT3S Instrumentation & Control
 Laser System Beam Control & Diagnostics Integrated Computers and Controls

Conventional Facilities and Beampath Infrastructure Systems

The NIP Conventional Facilities include the Optics Assembly Building (OAB), the Laser Target Area Building (LTAB), the Diagnostics Building as well as satellite buildings housing utilities and support services. Current activities include final construction of these facilities. These facilities are 90% complete.

The Beampath Infrastructure Systems (BIS) is all of the fixed equipment that support the special laser optical and target

chamber equipment such as vessels, piping, vacuum systems, electrical systems and wiring. support structure and other support hardware. Installation of the BIS equipment is just now starting.

NWBS Elements:

- N.F**
- N.L.1.6
- N.L.3.1.3
- N.L.3.1.4**
- N.L.3.7
- NA.4
- N.U
- NM.S**

Convntior.a1 Facility
 Main Laser System Infrastructure
 L T3S Switchyard Beamline L T3S Target Bay Beamline
 Package CSP-19; Install Beam Path Elements in L TAB
 Package CSP-17; DAB Infrastructure Design & Construction Utilities
 Construction Step Management

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ES&H

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This topic area covers project management and ES&H activities except those associated with cost and schedule planning/tracking (to be covered separately). Specific ES&H activities include facility safety plans, construction safety plans, and the implementation of Integrated Safety Management which has been adopted Laboratory-wide. Quality assurance is also a major activity that encompasses external and internal quality activities, reporting and audits. Project management is enhanced through the use of experienced industrial partners in key part of the NIP Project to ensure that the Project is run in a cost-effective manner.

NWBS Elements:

N.M.6

Assurance

Procurement

Procurement encompasses the strategies and methods for procuring NIP equipment

NWBS Elements:

N.M.3.!

Production **Step** Management

Project Management

Project management encompasses project organization. project controls, reporting, over- sight, and funding.

NW tracks and manages costs and schedules using tWo main tools. The first is the NIF Planning System (NPS), which is a long-standing project manage-ment tool for financial planning and tracking that is closely coupled to LLNL'5 cost acco1Inting system.1 Iris tool provides capability to plan work packages and roll-ups by organization, institUtion. WBS and sub-project The second too) is the Integrated Project Schedule (IPS), which is a Primavera-based scheduling too) that integrates Project and Program related activities. IPS contains over 24,(XX) activities in 23 modules that represent the en~ NIP enterprise.

NWBS E1ements~

N.M.1

PrtIject Management

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Outline

Report

Committee

Draft

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Address/Phone Listing

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Enclosure 6

Department of Energy Rebuttal Validation Review
of the National Ignition Facility (NIF) Project

COMMITTEE MEMBERS ADDRESS/PHONE LISTING

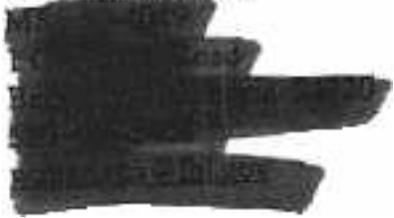
Dr. Michel Andre

CEA Technologies



Dr. William Barletta
National Laboratory

Lawrence Berkeley



Ms. Terri Batuyong
U.S. Department of Energy



Ms. Kathleen Carlson U.S. Department of Energy

Nevada Operations Office



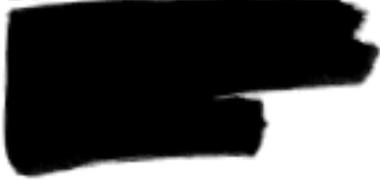
Mr. John ComueUe
Stanford Linear Accelerator Center



Mr. George Coward
Los Alamos National Laboratory

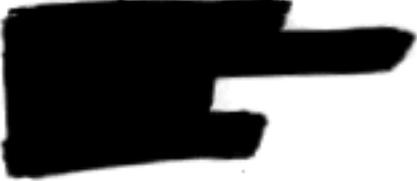


Dr. Frank Crimi



Mr. Rudy Damm

Oak Ridge National Laboratory



Mr. Gene DeSantier



Dr. Robert Diebold



Mr. Joseph DiStasio
u.s. Department of Energy

Argonne Group



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12:31PM

Dr. John L. Emmett



Mr. Arnold Epstein

U.S. Department of Energy



Mr. Robert Forst

U.S. Department of Energy



Dr. Damon Giovanielli



Mr. Richard ffislop

Argonne National Laboratory



Dr. Rusty Humphrey
Stanford Linear Accelerator Center



NO. 972

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Dr. Andrew Butto
D Thomas Jefferson National

Accelerator Laboratory



Mr. Daniel LehmAn

U.S. Department of Energy



Mr. Stephen Lewis
Lawrence Berkeley National Laboratory



Mr. Phil Lindquist
California Institute of Technology



Dr. Paul Lisowski

Los Alamos National Laboratory



AUG. 24. 2000

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Dr. Steve Loucks
University of Rochesrer

Laboratory for Laser Energetics

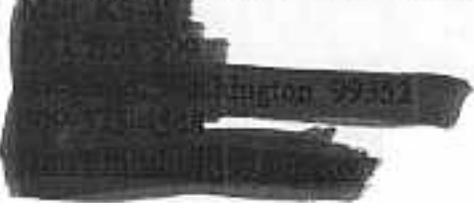


Dr. Jay Marx

Lawrence Berkeley Laboratory



Mr. Jim McClusky
Pacific Northwest National Laboratory



Dr. Robert McCrory
University of Rochester

Laboratory for Laser Energetics



Mr. Barry Miller
Oak Ridge National Laboratory



Dr. George Neil
Thomas Jefferson National
Accelerator Laboratory



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3

Dr. Job Peoples
Fenni National Accelerator Laboratory



Dr. Ji'l'n Powell

Sandia National Laboratories

[REDACTED]

Dr. James G. Renfro

[REDACTED]

Dr. George Ross

[REDACTED]

Mr. Tom Shea

U.S. Department of Energy

[REDACTED]

Dr. Michele Shimi Thomas Jefferson National
Accelerator Laboratory

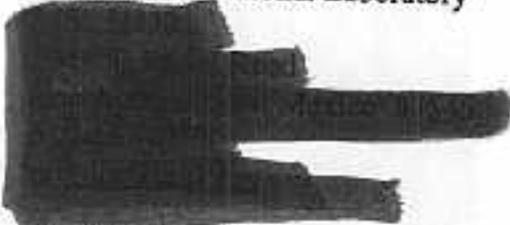
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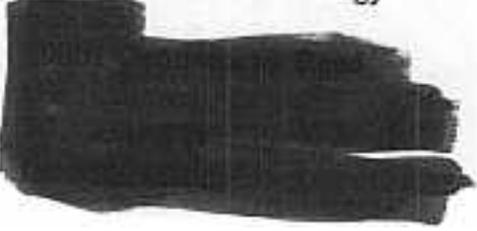
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Dr. Michael Tbuot

Los Alamos National Laboratory



Dr. Timothy Toohig
U.S. Department of Energy



Mr. Jim Triplett
Lawrence Berkeley Laboratory



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Dr. StaD Whi~mb

California Institute of Technology



Mr. Jim Winter

U.S. Department of Energy



Mr. Bob WUDderlich

U.S. Department of Energy



Dr. Leonard Victorino



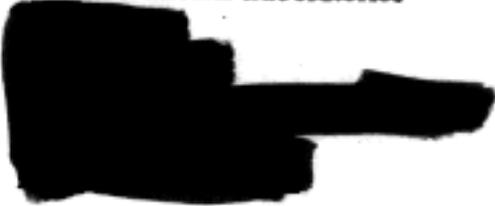
Mr. Hans Vogel

Pacific Northwest National Laboratory



Mr. Doug Weaver

Sandia National Laboratories



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OBSERVERS

Dr. Jim Anderson

U.S. Depallment of Energy



Mr. Sam Brinker
U.S. Department of Energy
Lawrence Livermore National Lab



Mr. Marty Domagala
U.S Department of Energy

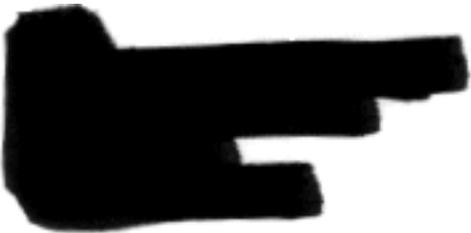
Oakland Operations Office



Mr. Doug Eddy
U.s. Department of Energy Lawrence Livermore National Lab



Dr. Tom Finn
U,S. Department of Energy



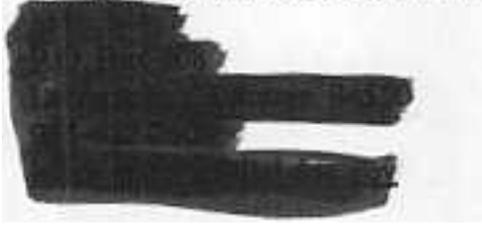
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Ms. **Helen Gladden**
U.S. Department of Energy

Lawrence Livermore National Lab



Dr. **Bermarm Gnmder** Thomas Jefferson National
Accelerator Laboratory



Mr. Bob Hilliard

U.S. Department of Energy
Oakland Operations Office



Mr. Mart HoUander

U.S. Department of Energy



Dr. Chris Keane

U.S. Department of Energy



Mr. Edward ~~Y~~~k15
U.S. Department of Energy

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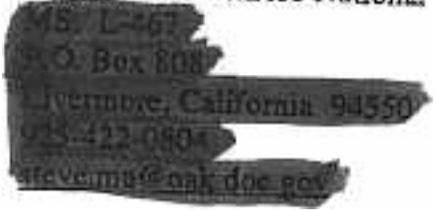
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Mr. Allen Levy
U.S. Department of Energy



Mr. SteveMa
U.S. Department of Energy

Lawrence Livermore National



Lab

Mr. Paul Ross
U.S.

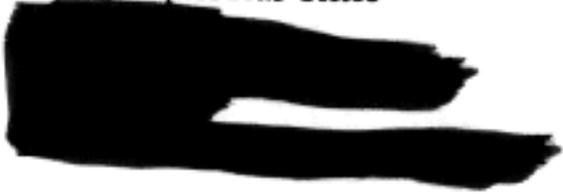
Department of



Energy

Ms. Eileen Rountree-McLennan
U.S. Department of Energy

Oakland Operations Office



Mr. Scott Samuelson
U.S. Department of Energy Lawrence Livermore National Lab



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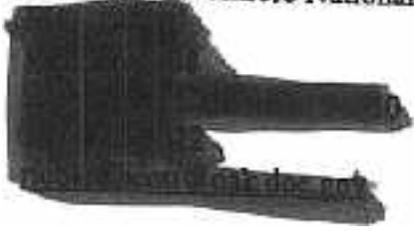
Protator Donald Sdlumacher (University of California)
c/o Maria Trance
U.S. Department of Energy

Oakland Operations Office



Mr. Richard SQuitt
U.S. Department of Energy

Lawrence Livermore National



Lab

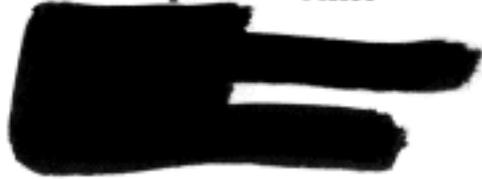
Ms. June WaD acb
U. S Department of Energy

Oakland Operations Office



Ms. CamiDe Ynan.Soo Boo U.S Department of Energy

Oakland Operations Office



Mr. Ken Zahora
U.S. Department of Energy

Lawrence Livermore National Lab



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Enclosure 7

NIF Project

Points of Contact

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Enclosure 7

Department of Energy RebaseliDe VaJidatioD Rmew
of die NationallgnitioD Facility (NIF) Project

NIF POINTS-OF -CONTACT

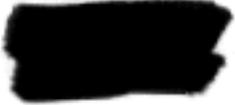
~

Teleph~

E-Mail

Large Opti~

Jeff Atherton
JaCk H. Campbell



Line-Replaceable Units

Richard H. Sawicki



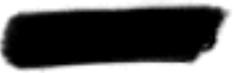
Assembly, Installation, Commissioning System Integration

Mary L. Spaeth



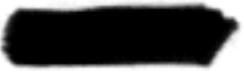
Integrated Computer Control Systems

Paul J. Van Arsdall



Conventional Facilities/Beampath Infrastructure Systems

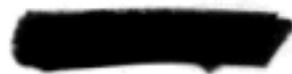
Valene S. Roberts





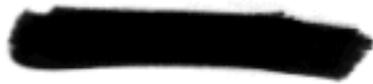
ES&H

Jon M. Yatabe



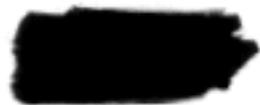
Cost & Schedule

Ralph W. Patterson



Procurement

Jeff Atherton Paul Weber



So'i

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Enclosure 8

Security Information

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Enclosure 8

Department of EDergy Rebaseline Validatio. Review of the National Ignition Fadlity (NIF) Project

VIP VISITOR INFORMATION REQUFSI'

Dear ~OE Rebaseline Validation Review Vi~itoc
_____ Lawrence Uvermore National Laboratory Au~t 7-11.1000

So that we may arrange access to the facility .§;!1d confirm the number of attendees for space and hospitality we request that you complete the following information:

**DO YOU HAVE A DOE STANDARD/COMMON BADGE:
Does your badge have a 1 2 or 3 "L" or "IO"? (circle one)**

FULL NAME:

AFFILIATION:

PHONE:

BUSINESS ADDRESS:

TELEPHONE NUMBER:

FAX NUMBER:

~ ADDRESS:

SOCIAL SECURITY NUMBER:

DRIVERS LICENSE NUMBER:

DATE OF BIRTH:

PLACE OF BIRTH:

CITIZENSHIP:

DIETARY RESTRICTIONS:

Please FAX the completed form to the Protocol Office by July 10, 2000. Our FAX number is (925) 422-9507. If you have any questions, please do not hesitate to call me on (925) 422-5122. EMail: rtkard2@llnl.gov.

Sheryl Rikard Protocol Office

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Enclosure

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Maps/Directions

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Directions &

Tri-Valley Area

Map

Work

& Joint Tri-Valley

Visitor Information

Visitor Center

Information

Visiting LLNL

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Directions & Transportation to the Laboratory

The Lawrence Livermore National Laboratory is located at 7000 East Avenue (Highway 84) in the Tri-Valley area of California, about 45 miles east of San Francisco. On this page, directions are given for visitors traveling from the area.

6. (.238 roms into 1-580 EAST.

7. Continue EAST on 1-580 ~t 20 miJes pas! Casa-o Vaney. Dublin, PlcawIm. 3nd JW)St Li~ exits.

8. To go to the LAB'& Wc.'~ate Badge Offi~ take the VI.I(O Road exit. Keep ro die rigIn al the fott in the exit ramp. (DirctinnJ to ~ ViQtnrs Center ~ glvell1 ~ow.)

9 TraveJ SOITrn on V IISCO Road about 1.5 mlle&.

10. Turn left. If Wcstgate Drive. the fOuM ~c light M Vasco Road.

11. Take die ant right to the Labcntory's We.!tgIfe Badge Offiec, which is tile filS! baiJding ro the right ~fore passing the guarded etltlnlnc. All visiTORs must check in at this office prior 10 entering d)e ~'s main site.

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From the San Fran"i.co IDtemat\~nal Ai~

The San Francisco Jn~ationa1 ~ is about 49 miles west Df IlJc Labonrory. Tm~ cime from !he aip)It to Die La}K)r;)lory is about 1 hour Bnd 15 minutes but tan be 10~ during commure houn.

1. As you ~t the ai!'J!Ort. take J-]O] soum toward S4DJo~ Drive abollt 6.4 miles.

2. Take the CA-92 exit to Ha.~w8Id/Ha1fMOOII Bay.

3. Keep left at 11J~ fm in the ramp. and lake Ihc CA.92 EAST exil toward Haywri ContimJe eaSf M CA-92 over the Siln Mateo Bridge.

4. Take the 1.880 NOKTH ~t ~ Ookland.

5. Take the J-238 NORTH/I-5BO BAST exit.

6. Keep [() 1M right, and We the (.5&0 EAST ~t on me righr ~ S~ .

7. Continue EAFT on 1-580 about 20 miles pa31 C3SU'O Valley. Dublin; ~ ~ DK]6t li~ ~rs.

8. To go to the lbb's W~re Badge Offioc, take !he Vasco R~d exit. Kcqt ~ die rigblu1fle fod; in tJJe exit ramp. (DjrccrimS ro .Ihc Vi~il~ Cenrer are glVCII below.)

9. Trav~1 SOUTH 011 Vasco Road about 1.5 mile&.

10. Tum jcft as Westgnre Drive,lffe fOllnh traffic tight M Vasco Road.

1 J. Take !tIC mt right [() dr. Laboratory's W~lgate Bidce Offi~ which it the M building to the rip bGfore passing the swarded enlranCC. All vi3itors must check in arthis office. pri< 10 enlring the LaboraQy'S maiD li~. -

From the ~3n .T~ Interutlonnl Ai~ort

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12: 34PM

NO. 972

t nc. LN.-., ~- i T,,...,MUoI\

~ San Jose Inrcmacooal Airpon is abOll! 36 rnilei southwest of the LabOr:llory, Travel time from die airport to the Ubor81Cry is ~t I our

but can ~ 10nGCf during commutE: /!Ours.

I E.x.it mt nirp:ln

2. Take the 1-880 NORTH on-ramp. Dove about 1 milei.
3. Take dIt CA-237 EAST/Missi()rj Boulevard exit Drive !!boot] mile.
4. Take die J-680 NORTH exit toward S~tO Drille about 16 rnilei

S Take die I-sao EAST exit tOward Stockron,

6. Contin~ EAST on 1-580 past P]tasanlOn and most of the Uvesmore exits

7, To go 10 the Lab's Wcstg~te Badge Office, take ~e Vasco Road exit Keep to d1e right at the fQ~ in ~ exit ramp, m;~crim' tn me
Visir(~ C..~ 8IC svt11 ~low)

B. Tr~veI SOUTH on Vasco Road about I.S mil~

9 TWTilcft at Westgate Dr1ve, d1e founh traffic light Oil Va.sco Rood.

J O. Take [t)C Mllight to the l..DbOnItory's W~ate B~ge Otnce, which is the fi~ building to die right before passing dtc guarned
entInnc;C. All visitors must check in at tIiJ *offi*~ prior to emering tIle LaboraIOry' & mUlsirc.

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From 1-580 to die Labor-atory's V""Silon Center

The Yi-itors Center is I~ on ~vjUe Rood ~ the l.Ab~tory's &st Gate eIllrimCe aDd is ~ ro !hi: ccnc:rB/ public Monday through Flida.y
from 1:30 to 4:30 p.m. Inside, visitOrS will find display_~ ~reseming Law~ Li- proGJ" &Jl15 in national security. energy and the
bioscieQ~s. as well as infomution on the Laborala-y's iJiStOry ~ a j)ioneer iB narioon1 ~eard1 and development. To schedule a large-
group tour outside the center's tI(nMJ boun. call (510) 422.4599,

1. From 1-580 EAST, take the OreenviDe A~ec.xit
2. Turn Ieff Q1 the stop sign.
3. Turn right at Gr~'~iJle Avenue.
4. Turn righr fit Lupin Way, at !he Laborntory's east entl8n~.
5. Turn left into !he Visitors Center puking 10{, ~fore ~ gw!Ii SBle.

Get more inforblatioD about...

.How TO Reach u~

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La~DCC Livermore ~atiOQaJ Labontory

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