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U.S. DEPARTMENT OF ENERGY
POLYGRAPH EXAMINATION REGULATION
Notice of Proposed Rulemaking
Docket Number CN-RM-99-POLY

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In Re the Matter of the:
NOTICE OF PROPOSED RULEMAKING
AND PUBLIC HEARING
LAWRENCE LIVERMORE
NATIONAL LABORATORY

/

MORNING SESSION
September 14, 1999
9:00 a.m. to 1:00 p.m.

Taken by Leticia A. Ralls,
a Certified Shorthand Reporter
in and for the State of California
CSR No. 10070

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P A N E L M E M B E R S

GENERAL GENE HABIGER, Presiding Official
for the Hearing, Director, Office of Security and
Emergency Operations, SO-1.

DOUGLAS HINCKLEY, Program Director,
Counterintelligence Evaluation Board, Office of
Counterintelligence, CN-1.

LISE HOWE, Attorney at Law, Office of
General Counsel, GC-73.

WILLIAM HENSLEY, Acting Director, Office
of Security Support, Office of Defense Programs,
DP-45.

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PROCEEDINGS

September 14, 1999 - 9:00 a.m.

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GENERAL HABIGER

GENERAL HABIGER: Well, good morning, ladies and gentlemen, and welcome. I'm General Gene Habiger, United States Air Force retired, Director of the Office of Safety Security and Emergency Operations. On behalf of the Department of Energy, and particularly Secretary Richardson, I'd like to thank you for taking the time to participate in this public hearing concerning the proposed Polygraph Examination Program.

Secretary Richardson has personally asked me to be here today to listen carefully to your comments and concerns and to report back to him. Let me assure you, we take this issue and your concerns very seriously.

The purpose of this hearing is for DOE to listen -- and let me underscore that -- to listen to your comments on the Department's Notice of Proposed Rulemaking. This is the time for us to listen and to understand your concerns. It is not

1 a forum to debate the issues. We are here with our
2 ears tuned to what you have to say. Your comments
3 are not only appreciated, they are essential to
4 this rulemaking process.

5 The Department of Energy proposes
6 regulations for the use of polygraph examinations
7 for certain DOE and contractor employees,
8 applicants for employment, and other individuals
9 assigned or detailed to Federal positions at DOE.

10 The proposed regulations describe the
11 categories of individuals who would be eligible for
12 polygraph testing and controls for the use of such
13 testing as well as prevention of unwarranted
14 intrusion into the privacy of individuals. These
15 regulations are being proposed to comply with
16 various executive orders which require the
17 Department to protect classified information.

18 These regulations for the use of polygraph
19 examinations for certain DOE and contractor
20 employees are intended to protect highly-sensitive
21 and classified information and materials to which
22 such employees have access.

23 This rulemaking also proposes conforming
24 changes to regulations governing the Department's
25 Personal Security Assurance Program, otherwise

1 known as PSAP, and the Personal Assurance Program,
2 known as PAP.

3 If you have not already read the Federal
4 Register notice from August 18th, 1999, I urge you
5 to do so. Copies are available at the registration
6 desk.

7 The comments received here today and those
8 submitted during the written comment period, which
9 ends October 4th, will assist the Department in the
10 rulemaking process. All written comments must be
11 received by this date to ensure consideration by
12 DOE.

13 The address for sending in comments is:
14 Douglas Hinckley, United States Department of
15 Energy, Office of Counterintelligence, CN-1, Docket
16 Number CN-RM-99-POLY, 1000 Independence Avenue, SW,
17 Washington, DC 20585.

18 In approximately 14 days, a transcript of
19 this hearing will be available for inspection and
20 copying at the Department of Energy's Freedom of
21 Information Reading Room in Washington, DC. The
22 address is specified in the Federal Register notice
23 and is also available at the registration desk.
24 The transcript will also be placed in DOE's
25 Internet web site at the following address:

1 home.doe.gov/news/fedreg.htm.

2 In addition, anyone wishing to purchase a
3 copy of the transcript may make their own
4 arrangements with the transcribing reporter.

5 This is not an evidentiary or judicial type
6 of hearing. It will be conducted in accordance
7 with Section 553 of the Administrative Procedure
8 Act, 5 U.S. Code, Section 553 and Section 501 of
9 the DOE Organization Act, 42 U.S., Section 7191.

10 In order to ensure that we get as much
11 pertinent information and as many views as possible
12 and to enable everyone to express their views, we
13 will use the following procedures:

- 14 * speakers will be called to testify in the
15 order indicated in the agenda;
- 16 * speakers will have an allotted five minutes
17 for their verbal statements;
- 18 * anyone may make an unscheduled statement
19 after all the scheduled speakers have
20 delivered their statements. To do so,
21 please submit your name to the
22 registration desk before the conclusion of
23 the last scheduled speaker;
- 24 * questions for the speakers will be asked
25 only by members of the DOE panel conducting

1 the hearing.

2 As I said, the purpose of this hearing is to
3 receive your comments and concerns on DOE's Notice
4 of Proposed Rulemaking. I urge all speakers to
5 provide us with your comments, opinions, and
6 pertinent information regarding the proposed rule.

7 Please remember that the close of the
8 comment period is October 4th, 1999. All written
9 comments received will be available for public
10 inspection at the DOE Freedom of Information
11 Reading Room in Washington DC, and the phone number
12 there is (202) 586-3142.

13 If you submit written comments, include ten
14 copies of your comments. If you have any questions
15 concerning the submission of written comments,
16 please see Andi Kasarsky at the registration desk
17 right outside in the foyer. She can also be
18 reached at (202) 586-3012.

19 Any person submitting information which he
20 or she believes to be confidential or exempt from
21 public disclosure, should submit to the Washington,
22 DC, address a total of four copies: one complete
23 copy with the confidential material included, and
24 three copies without the confidential information.

25 In accordance with the procedures

1 established in 10 CFR 1004.11, the Department of
2 Energy shall make its own determination as to
3 whether or not the information shall be exempt from
4 public disclosure.

5 We appreciate the time and effort you have
6 taken in preparing your statements and are pleased
7 to receive your comments and opinions.

8 I would like now to introduce the board
9 members of this panel. Joining me here today is
10 Doug Hinckley, Program Manager, Polygraph
11 Evaluation Board, Office of Counterintelligence.
12 Doug?

13 Lise Howe, an attorney with DOE's Office of
14 General Counsel. Lise?

15 And Bill Hensley, Director, Office of
16 Security Support with DOE's Office of Defense
17 Programs.

18 Before we begin to hear your comments, we
19 thought it would be extremely valuable to provide
20 you with a short briefing on polygraphs. We are
21 well aware there is a lot of confusion and many,
22 many misconceptions about this issue.

23 Last week we held in-depth briefings at each
24 of the labs. This morning's briefing provides some
25 of that material.

1 First I'd like to call Dr. Barland of the
2 Department of Defense Polygraph Institute, and Dave
3 Renzelman, Polygraph Program Manager for the Office
4 of Counterintelligence, Pacific Northwest National
5 Laboratory, to provide that briefing. Gordon.

6

7 DR. GORDON BARLAND

8 DR. BARLAND: Thank you, General Habiger.

9 I'll be very brief with my comments. I'm
10 from the Department of Defense Polygraph Institute
11 which is responsible for training all of the
12 Federally-trained polygraph examiners.

13 The DOD Polygraph Institute provides
14 approximately 15 advanced training courses in
15 addition to the primary training course. And
16 Federal standards require that each Federal
17 polygraph examiner obtain about 80 hours of
18 continuing education within every two-year period.

19 Each agency that is using the polygraph
20 within the Federal government has a quality control
21 office; thus, every single polygraph examination
22 that is conducted within the Federal government is
23 independently reviewed by at least one other
24 polygraph examiner.

25 The DOD Polygraph Institute is responsible

1 for inspecting the Federal quality control offices
2 to make sure that they're adhering to both their
3 own guidelines and to the Federal guidelines.

4 We recently published Federal standards for
5 how polygraph examinations are to be conducted
6 within the Federal government, and the American
7 Society for Test Materials is in the process of
8 developing national standards for the conduct of
9 polygraph examinations that would be applying both
10 to Federal and to non-Federal polygraph
11 examinations.

12 All entering students at the DOD Polygraph
13 Institute are required to have a baccalaureate
14 degree. The training at the Institute is conducted
15 at a graduate level. We currently have an
16 application pending with the Department of
17 Education for authority to grant a Master's degree
18 in forensic psychophysiology; that is, the
19 polygraph discipline is emerging now as a separate
20 scientific and forensic discipline.

21 The curriculum at the Institute is based
22 upon research, accepted professional practices, and
23 the codified standards. When we modify the
24 curriculum, it is based very largely on additional
25 research findings.

1 Now, the big question is how accurate the
2 polygraph is. There are two types of accuracy that
3 we need to be concerned about: The accuracy at
4 detecting the lies of a person, and also the
5 accuracy at clearing the person who is not lying to
6 the relevant questions. And these would be called
7 the "true positives" and "true negatives"
8 respectively.

9 And this implies that there are two types of
10 errors that can be made: You could incorrectly
11 diagnose a truthful person as being deceptive, and
12 that would be a false positive. On the other hand,
13 you could also clear a person who is concealing
14 significant information, and that would be a false
15 negative.

16 Even though the polygraph has been subjected
17 to decades of scientific research, the precise
18 accuracy is still controversial, and I think it
19 will remain controversial for the foreseeable
20 future. It may be one of these insoluble type of
21 questions.

22 Unfortunately, there is nothing known to be
23 more accurate than the polygraph for the purpose of
24 determining whether the person is telling the truth
25 or not against which the polygraph can be measured.

1 It's kind of like asking how accurate the American
2 judicial system is. There is simply nothing known
3 to be better for our purposes than that itself.

4 Every methodological approach that has been
5 applied to try to determine to affect the accuracy
6 of a polygraph has its inherent strengths and
7 weaknesses. The two major approaches are to use
8 mock crime studies in a laboratory environment, and
9 the other approach is to conduct field studies.

10 In the laboratory approach, the big
11 advantage of it is that we know absolutely,
12 positively, independently of the polygraph, whether
13 each person has told the truth or has not told the
14 truth to the relevant questions on the polygraph
15 test. And that's a very big advantage.

16 On the other hand, a significant
17 disadvantage is that the level of affect or the
18 level of emotional involvement is not the same in a
19 mock crime where people are just playing a role as
20 it is in a real-life situation where there are
21 real-life consequences hanging on the outcome of
22 the polygraph.

23 Field studies, on the other hand, have the
24 great strength that they are imminently
25 generalizeable to a field precisely because they

1 are a field polygraph examination. The
2 psychodynamics are the same; the examiners are the
3 same; the issues are the same. They are field
4 examinations.

5 But there's a very significant weakness to
6 that line of approach, and that is: Independently
7 of the polygraph, we don't really know whether the
8 person was lying or telling the truth to the
9 relevant questions in the vast majority of the
10 cases. We know about it with only a high degree of
11 confidence in a very small subset of cases.

12 So this is why the polygraph's accuracy is
13 rather controversial.

14 In terms of the type of test that the DOE is
15 considering employing in their screening program,
16 there have been three significant mock screening
17 studies examining the accuracy of this type of
18 examination.

19 There were a total of 208 subjects in these
20 three studies. And excluding the six percent of
21 the cases where the examiner could not make a
22 definite decision one way or the other in the test
23 results on whether the subjects were telling the
24 truth or not, setting those aside and looking at
25 the accuracy of the actual decisions that the

1 examiner made, we see that the decisions were
2 correct in 93 percent of the cases where the people
3 were mock guilty and 94 percent of the cases in the
4 mock innocent subjects. That compares very
5 favorably with most psychological tests.

6 In terms of the empirical data, there has
7 been one field study that is, in a sense, still in
8 progress. Data collection has been completed, but
9 the data analysis is still going on, and the report
10 has not yet been published. This was on a contract
11 basis. The polygraph examiners involved in the
12 study were not Federal polygraph examiners.

13 There was an 11 percent inconclusive rate,
14 and the criterion deceptive subjects -- that is,
15 when we tried to establish the accuracy of the
16 polygraph independently of the polygraph itself --
17 those who were being deceptive, according to our
18 criterion, the accuracy rate with them on the
19 polygraph was 72 percent, whereas it was 87 percent
20 for the criterion truthful subjects.

21 Now, as I mentioned, one of the weaknesses
22 of doing field studies is the inadequacy or the
23 inability to determine with absolute precision who
24 really was, in fact, telling the truth on the
25 polygraph test or not.

1 But there is a third source of data which
2 also is field data which I think is particularly
3 important for those of you who may be involved in
4 the DOE program. And this is a related program
5 that the Department of Defense has had for a number
6 of years where they are involved in security
7 screening for people who have certain types of DOD
8 clearances.

9 In the latest information available, which
10 was published in a booklet that went to Congress
11 that has congressional oversight of the DOD
12 program, in the last fiscal year there were 7,461
13 people screened under this program, although there
14 were actually more than that, but these figures do
15 not include those from NSA and NRO because those
16 figures are classified.

17 That figure, the total number of exams
18 conducted is at the bottom of the -- the bottom row
19 here, 7,461. Let's take a look at how those exams
20 turned out.

21 First of all, nobody in that particular
22 program refused to take the polygraph test. Now,
23 in years past, there have occasionally been one or
24 two people per fiscal year who declined to do it,
25 more so at the beginning of the program than at

1 present.

2 In terms of those who were cleared by the
3 polygraph, they were called truthful, or the
4 technical parlance is NSR, "no specific responses,"
5 to the relevant questions. 7,334 people were
6 called truthful on their polygraph test. That's
7 over 98 percent.

8 Now, this is not to say that all of these
9 were tested on just one occasion and that was the
10 outcome. In a number of cases there had to be
11 several examinations conducted before they were
12 inconclusive initially. And so it took a couple of
13 re-examinations to clear them. There were 208
14 people who required three series or more in order
15 to arrive at a definite decision.

16 Furthermore, in some of these truthful
17 outcomes, the people, during the polygraph test,
18 explained during the pre-test interview -- before
19 they were attached to the polygraph, they explained
20 some concerns that they had, which in some cases
21 may have been quite significant. But on the actual
22 polygraph test, they did clear after they had made
23 those explanations.

24 There were 110 people in which the test
25 showed specific responses to the relevant

1 questions; that is, it showed that these questions
2 were troubling them. These people then made
3 admissions or explained what was bothering them
4 about those questions, and then when they were
5 re-tested, those responses died away. The
6 presumption now is they were telling the truth.

7 So these are not false positive outcomes.
8 These were -- the initial outcome was true positive
9 because they explained what their problem was.

10 There were only two cases where the examiner
11 was unable to make a definite decision. There are
12 four cases in the last fiscal year in which there
13 were significant responses to the relevant
14 questions, but the person made no admissions
15 whatsoever about what was troubling him about the
16 questions.

17 Now, it's fully possible that the polygraph
18 was completely correct with these four people and
19 that they were, in fact, holding back significant
20 information. On the other hand, it is also
21 possible that these were false positive errors.
22 The person really was not holding back any
23 information, but the polygraph came up with the
24 wrong results. We don't really know what the case
25 was here.

1 There were an additional 11 people who
2 showed significant responses. When they were
3 confronted with those responses, they made
4 significant admissions, but on their re-test, the
5 test showed that they were still responding to the
6 questions.

7 So either they were continuing to hold back
8 additional information and the polygraph was
9 correct, or they had fully explained what was
10 troubling them, and the polygraph should have
11 turned out showing no specific responses.

12 If we combine those last two groups, that
13 would be a total of 15 people in which it is
14 conceivable that there might have been a false
15 positive error. So the maximum number of false
16 positive cases out of over 7300, this would be -- a
17 bottom line of maximum false positive rate in the
18 DOD program would be one person out of 480
19 examinations. And that is phenomenal.

20 Of course, we don't know what the false
21 negative rate is. We don't know how many people
22 passed the polygraph who were holding back
23 significant information. We do know, however, that
24 there were a lot of admissions during the course of
25 these examinations that were very significant.

1 In four cases within the last fiscal year,
2 there were people discovered who were involved with
3 the foreign intelligence services. In one
4 particular case, a soldier over in Europe decided
5 to defect to a foreign country. He walked into
6 their embassy, offered them classified documents as
7 inducement to accept his defection.

8 Their intelligence service said, "Look,
9 you're going to be much more help to us if you
10 would remain in the Army, and, when you retire,
11 apply for a position at this particular agency" --
12 which I won't name here in this public forum,
13 but -- "apply for a position with that agency, and
14 then you can give us really useful information."

15 Well, we only found out about this as a
16 result of the polygraph examination. It had not
17 been developed during the background investigation.

18 In another case, the person was in the
19 process of being recruited by a foreign
20 intelligence service when he was applying for a
21 position at, again, a very sensitive Federal
22 agency. He knew that the foreign intelligence
23 service was recruiting him; he knew what the
24 service was, and he knew that they were recruiting
25 him. There was no -- he knew what the situation

1 was.

2 In the course of the polygraph examination,
3 he mentioned this special relationship that was
4 being developed with that intelligence service and
5 mentioned that that evening he was going to be
6 contacting his case officer from the other
7 intelligence service in order to brief him on how
8 his polygraph exam turned out.

9 And it was only because he was caught on the
10 polygraph at the 59th minute of the 11th hour
11 before starting his espionage career that he
12 declined their recruitment pitch. But, man, that's
13 cutting it very close.

14 What we're saying here is that the polygraph
15 is effective at catching real-life spies.

16 Since the collapse of communism nearly a
17 decade ago, the polygraph has been spreading
18 rapidly throughout the rest of the world.
19 68 countries now have a polygraph capability.
20 That's roughly one country out of every three in
21 the world. Obviously, an increasing number of
22 foreign intelligence and counterintelligence
23 services are using the polygraph.

24 One of the criticisms that has been leveled
25 at the polygraph is that any spy worth his salt

1 would be trained in a short period of time in how
2 to beat it.

3 And it is true that in the laboratory
4 situation you can teach a person within a
5 relatively few minutes -- say, about half an
6 hour -- how to beat certain types of polygraph
7 examinations. And there's a lot of information out
8 on the web, on the Internet regarding how to beat
9 the polygraph.

10 Fortunately, or unfortunately depending upon
11 your perceptions, I guess, it's much harder to
12 apply this successfully in real-life situations.
13 There's a lot of uncertainties.

14 Now, you're familiar with the Ames case, of
15 course, who was with -- a Soviet spy who was given
16 a couple of polygraph tests. And when all was said
17 and done, he basically cleared the polygraph test.
18 So that was a failure of the polygraph.

19 Now, when his espionage career was
20 discovered, the polygraph -- there was a bigger
21 investigation, of course. And in the course of
22 that investigation, it was discovered that he had
23 only partially beat the polygraph itself. There
24 were responses there -- and he did not clear the
25 initial polygraph test that he was given; it's just

1 that he was able to talk his way out of it. He
2 kind of beat the system rather than the polygraph
3 itself.

4 We now train Federal polygraph examiners on
5 how to detect countermeasure attempts or attempts
6 to manipulate the outcome of the test.

7 This Doug Williams who has the page on the
8 Internet where he will sell you information on how
9 to beat the polygraph? We, earlier this year,
10 published a case of one of his students who was
11 using his techniques but did not successfully pass
12 the polygraph test and explained that he'd been
13 trained by Doug Williams in order to beat the test.

14 There's also a very recent espionage case in
15 which the person was trained by a foreign
16 intelligence service on how to beat the polygraph
17 test. He was one of their top spies, and yet he
18 did not pass his American test. He was re-tested
19 and did not pass the re-test. In fact, he was
20 tested multiple times; did not pass a single one of
21 his American-administered test. And it was only
22 when an investigation was opened up on him as a
23 result of his having failed the polygraph test
24 repeatedly that it was discovered that he was an
25 espionage agent working for this other country.

1 Thank you very much.

2 DAVID RENZELMAN

3 MR. RENZELMAN: My name is Dave Renzelman,
4 and I am employed by the Pacific Northwest National
5 Laboratory. They pay my salary. I work for Edward
6 J. Curran who is the Director of
7 Counterintelligence for DOE when we're doing
8 counterintelligence polygraph tests.

9 When we're doing other polygraph
10 examinations not of a counterintelligence nature, I
11 then work for General Habiger. I, or my, staff do
12 quality control on every polygraph exam that's done
13 in DOE.

14 DOE is the only agency in the Federal
15 government that has contract Federal examiners. We
16 are DODPI certified, Federally certified, and DOE
17 certified. And we had to go through a lot of hoops
18 to get that accomplished. And it was finally
19 worked out in a Memorandum of Agreement between the
20 Secretary of Energy and all the Federal agencies
21 that they would accept our testing if we met
22 certain prerequisites, and we do. DOE has ten
23 polygraph examiners, and I am their program
24 manager.

25 What I thought I would do today is walk you

1 through the DOE polygraph testing process should
2 you be an individual that would be asked to take a
3 counterintelligence polygraph exam.

4 Some people refer to a polygraph as a lie
5 detector. I see many familiar faces here that I've
6 spoken to before. My particular take on that:
7 That's a term used by the media. I only knew two
8 lie detectors in my entire career: One was my
9 mother, and I married the second one. There is no
10 way that you can show a response on a chart that is
11 a lie.

12 We then move into the process of calling it
13 a polygraph. I choose to call it a polygraph
14 because we have a Polygraph Program. The science
15 has brought it to the forensic psychophysiological
16 detection of deception. For my presentation and my
17 work, I choose to use the terminology "polygraph."

18 What is a polygraph? As far as you and I
19 are concerned, it is a means and a mechanism by
20 which we can see externally how you are feeling
21 emotionally internally when you listen to a
22 question, think about that question, and provide an
23 answer to that question.

24 And the kind of questions we're talking
25 about are very simply: Have you committed

1 espionage against the United States -- and that's a
2 very simple matter to answer; either you have or
3 you have not -- have you committed sabotage against
4 the United States or a terrorist activity which is
5 part of a sabotage effort?

6 The question that I predict that we would
7 want to talk about the most would be unauthorized
8 disclosure of classified information; i.e., to
9 people who don't have the clearance for access to
10 or need to know.

11 My boss, the Director of
12 Counterintelligence, and General Habiger, have
13 mandated that we are here with the sole charter to
14 determine that the people who are going to take
15 this test are verified that they are only working
16 for one government, our government, and not another
17 government as well. And track record shows that
18 there are people who do that.

19 Now, people would say to me, "Well, you
20 know, Dave, once upon a time I told my wife
21 something about what I did, and I shouldn't have,
22 and I know that now, and now I've got to take a
23 polygraph test. What's going to happen?"

24 We're going to have talk about that. That's
25 two things: a) not terribly intelligent, and,

1 b) probably some kind of a security infraction.
2 But that's not what this program is all about. We
3 are here to verify that the DOE's trust, faith, and
4 confidence in the people taking the test is
5 warranted, that they are only working for the
6 United States Government.

7 Unauthorized contacts means exactly that,
8 with a foreign intelligence service. How about
9 people that go on to travel many times to many
10 countries, maybe had dinner, drinks, or something
11 of an exotic nature beyond which we've just
12 discussed? We don't care about that unless that
13 person was representing a foreign or hostile
14 government or was a member of a foreign
15 intelligence service. Then, of course, we'd be
16 interested.

17 After the polygraph test -- and let me just
18 walk you through a real quick one. A polygraph
19 chart takes maybe eight minutes to conduct. In
20 preparation for asking the four security questions
21 and other diagnostic questions by which we make a
22 determination, "Did your answer to that question
23 trouble you," it takes about an hour to prepare you
24 to take that test.

25 Then it takes a period of time after the

1 test is completed to evaluate the data. An
2 examiner will take the data by polygraph chart and
3 do a blind analysis of it. That examiner is then
4 required to give it to a second examiner for a
5 blind review, not knowing the benefit of the first
6 evaluation of the data of your test.

7 Then the two test data analyses are
8 compared. If there are no differences, because
9 there should be none -- if one says it's a minus
10 and one says it a plus, somebody's wrong -- we take
11 procedures not to let that even happen.

12 Then it goes to a supervisory level who does
13 another blind analysis. If all three are in
14 concert, then the process is given to my office for
15 quality control which has the absolute right to
16 review that test, and, before the person is
17 dismissed from the testing process, if additional
18 testing is required, it is conducted on site, that
19 time, that day. So we are not here to
20 inconvenience you, your schedule, or the Department
21 of Energy.

22 And, if additional testing is required,
23 we'll tell you right up front. If your answer to
24 that question troubles you, it troubles us. Our
25 job is to determine "What is it about that question

1 or your answer to it that is bothering you."

2 Some people call it "lie response." I never
3 saw a lie response in my life. I see concern or
4 issues in people when they think about that
5 question or they answer it.

6 The secretary has -- has identified my boss
7 in writing and the delegation of authority of
8 memorandum that for the counterintelligence program
9 he's the only person that can approve those tests.
10 I can't do it; nobody between my boss and I can do
11 it. Only Mr. Curran.

12 Now, the results of your test can only be
13 given to Mr. Curran. It is put into a classified
14 computer system. They call it the
15 Counterintelligence Analytical Research Data
16 System -- acronym is CARDS. It's a classified
17 system.

18 It goes, from the input that I put into it,
19 directly to his office, and only he can read it;
20 only he can act on it -- not your supervisor.

21 And I told you before, I work for a
22 laboratory, too. The people that I work for and
23 pay me don't know what I do because I can't tell
24 them. I work for counterintelligence. They can
25 come and ask me, and I can't tell them. They have

1 to go and ask Mr. Curran or General Habiger. It's
2 just that way. When we're doing their work, we're
3 working specifically for them, not for the
4 Laboratory.

5 And we do quality assurance on all DOE
6 polygraph examinations. Counterintelligence is not
7 the only Polygraph Program run in the Department of
8 Energy. There are people that work for General
9 Habiger that have other issues where they may be
10 falsely accused, and we have a track record of
11 that.

12 Somebody said, "Mary did that," and Mary
13 said, "No, I didn't do that, and I'll take a
14 polygraph test to prove it." That's called
15 polygraph by means of exculpation. This program
16 does that as well. And it has cleared many people
17 wrongfully accused.

18 Each examination is recorded on
19 audio/videotape. And when I say that, let me say
20 that it is an 8 millimeter tape that has an audio
21 track and a video track.

22 If you have a non-issue test, no later than
23 90 days from the date that the results of your test
24 are adjudicated, by regulation mandated by General
25 Habiger and Mr. Curran, that test videotape is

1 destroyed.

2 We only do that every 90 days. The reason
3 for that is: We have a procedure that we have to
4 follow to destroy the videotape, and we can't go
5 through that every day. So we collect them, keep
6 them in a secure area, and, when the time is right,
7 they are destroyed by incineration. And there are
8 environmental rules that we have to follow, and
9 it's done at the test site.

10 And the polygraph examination, when I say
11 it's recorded in its entirety from the beginning to
12 the end, it's on videotape. And then we take the
13 data from the computer -- and our polygraph
14 instruments are computerized -- we take that data
15 and put it into that same videotape so that our
16 quality control person, our supervisory person, can
17 sit and watch your test as it's being conducted.

18 And we are the only Federal agency in this
19 country that does that and, to my knowledge, in the
20 world that does that so we can see on videotape you
21 taking your test, how you're emotionally feeling
22 when you hear that question in three parameters:
23 We record your respiratory activity, your
24 electrodermal activity, and your cardiovascular
25 activity.

1 By that, I mean we follow your blood
2 pressure on a mean level and your pulse rate on a
3 mean level. And the electrodermal activity is
4 nothing more than the fight/flight/free syndrome --
5 and we are pressed for time; anybody who wants me
6 to explain that later, I'll be happy to in person.

7 And we're looking for changes from the norm.
8 When we ask you a question, if emotionally your
9 answer to that question troubles you, then there's
10 a reason for that, and we're looking to discuss
11 with you "What is the reason that it did bother
12 you."

13 Now, let's suppose that you had a
14 troublesome answer to a question, and you said,
15 "Well, yeah, the reason that bothers me is" -- and
16 this actually happened in DOE -- "I took a document
17 that listed all of the nuclear warheads and where
18 they're located in this country, and I gave them to
19 the First Secretary of the Russian Embassy who I
20 met at a party, and maybe I was thinking that's a
21 problem." Well, we thought it was a problem, too.

22 And we discussed it, and it was decided,
23 yes, that was a problem: a) he shouldn't have done
24 that; b) it was against the rules and regulations;
25 and, c) it had to be referred to the FBI for

1 investigation, who has the charter for
2 investigating counterintelligence matters within
3 this country.

4 We only use the process put out by DODPI,
5 the Department of Defense Polygraph Institute.
6 Seated with us here, not yet introduced, is
7 Dr. Andy Ryan who is the Director of Research. And
8 they have a significant staff at DODPI. And we
9 support their research efforts, but we do not do
10 anything that is not mandated.

11 Dr. Barland related to how they have a
12 quality assurance program where they come out and
13 inspect people. I am proud to tell you that the
14 Department of Energy was inspected last year. We
15 are the only Federal agency in the U.S. Government
16 that has a quality control program that there were
17 zero findings. They found nothing in error with
18 the DOE Polygraph Program, and I intend to keep it
19 that way.

20 The Secretary of Energy has said very, very
21 clearly that adverse personnel actions cannot be
22 taken against you solely based upon adverse
23 results -- or, as you would call it, not passing
24 your polygraph test -- unless all reasonable
25 efforts are made and completed to independently

1 determine "Why did your answer to that question
2 bother you."

3 And then I don't make that determination.
4 I'm just telling you what it is.

5 We already talked about our folks in
6 addition to the requirements to get into the
7 school. DOE requires that our examiners go on and
8 complete a minimum of an advanced degree at the
9 master's level in order to be a certified DOE
10 examiner. We require proven counterintelligence
11 experience in addition to just meeting the
12 qualifications to be a polygraph examiner.

13 There are some agencies that will take
14 college graduates and train them to be a polygraph
15 examiner. I will not let a person test you that I
16 would not let test me if my career, reputation, and
17 future depended on the outcome of that examination.
18 That's how much I care. And I was given that
19 mandate by Mr. Curran and General Habiger.

20 General Habiger took his polygraph test.
21 He's been at our facility, and he has seen it. And
22 he knows the examiners by name and face and
23 reputation and capabilities.

24 We just have, in my opinion, the very best
25 program in the Federal government. We're small and

1 we have a lot of work to do, but we're not going to
2 take anything less than the best to do this job.

3 All of our people at 1811 have the GS rating
4 in the Federal government for Criminal Investigator
5 of Counterintelligence, or they have a DOD
6 investigative agency's rating with NIS or SI, Army
7 MI or CID. They have to be DODPI certified.

8 And then we go through a DOE certification
9 process that is stricter than any Federal agency.
10 CN-1 coordinates all of your polygraph procedures
11 with the Director of the Polygraph Institute.

12 And there are two people whose names should
13 be familiar in authority and polygraph in the
14 Department of Energy. One is General Habiger
15 seated right down in front, and the other is Edward
16 J. Curran, the Director of Counterintelligence.

17 And that was a seven and a half minute
18 presentation that normally takes me an hour to do.

19 Thank you.

20 GENERAL HABIGER: Well, thank you very much
21 Gordon and Dave.

22 Ladies and gentlemen, we're going to step
23 into the next phase of our open hearing this
24 morning. In order to get us into a transition,
25 we'll take a 15-minute break, and then when we

1 reconvene, we'll have our first scheduled speaker
2 come up.

3 Thank you for your patience.

4 (Whereupon, a recess was taken.)

5 GENERAL HABIGER: Ladies and gentlemen, it's
6 now time to move on to the reason why we're all
7 hear, to listen very carefully to your comments on
8 Notice of Proposed Rulemaking.

9 I would like to call our first speaker to
10 the agenda. For the record, I ask that each
11 speaker please state his or her name, whom you
12 represent, before making your statement.

13 First I'd like to call Mr. Jeff Colvin.

14 MR. COLVIN: Right here?

15 GENERAL HABIGER: Yes, sir.

16

17 JEFFREY D. COLVIN

18 MR. COLVIN: My name is Jeff Colvin. I'm a
19 Lawrence Livermore National Laboratory physicist.
20 I'm here speaking for myself. I'd like to read my
21 statement so I can be sure of staying within the
22 five-minute limit.

23 Thank you for allowing me the opportunity to
24 present my comments on DOE's Proposed Rule on
25 Polygraph Examination Regulation.

1 I have had a DOE Q clearance and have worked
2 in some aspect or other of the U.S. nuclear program
3 for 27 of the past 32 years, the last 16 years at
4 the UC labs: first at Los Alamos and then here at
5 LLNL.

6 I am well aware of my responsibilities as a
7 holder of a Q clearance and support any and all
8 measures that serve to enhance and strengthen U.S.
9 nuclear weapons security. The use of polygraph
10 examinations, however, will not help to strengthen
11 nuclear weapons security but will, in fact, have
12 just the opposite effect as I will now argue.

13 In the absence of nuclear testing, the
14 credibility of the U.S. nuclear deterrent rests
15 entirely on the credibility of the science base on
16 which it is built. The science cannot thrive and
17 prosper in an environment of fear, distrust, and
18 suspicion which is precisely the atmosphere that is
19 created by this proposed rule.

20 One of my roles in my current position is to
21 recruit new postdocs to our program. It is already
22 difficult to find people with the requisite
23 training and the high-energy density physics
24 required for this work. And we have a hard time
25 competing with major university laboratories for

1 the few good people who have such training.

2 If I have to tell prospective postdocs that
3 they need to undergo polygraph testing to take a
4 job in our lab, then my already difficult
5 recruiting job becomes impossible.

6 Even for the scientists already here, the
7 proposed rule is already having a chilling effect.
8 The number of papers being presented by Livermore
9 scientists at this November's annual American
10 Physical Society meeting is down by 33 percent from
11 last year.

12 Although there may be several factors
13 responsible for this big decrease, surely one of
14 them is that many people have been scared off by
15 the current swirling controversy over security
16 lapses at the labs and have chosen to keep a very
17 low profile.

18 There are several other measures of
19 decreased scientific productivity that perhaps
20 other speakers will have time to address. If this
21 productivity decline becomes a long-term trend, as
22 is likely in my view if this rule is implemented,
23 then the science enterprise at the labs will surely
24 be damaged, and the U.S. will become, after 10 or
25 20 years, only a second-rate nuclear power. It is

1 hard for me to see how this outcome enhances U.S.
2 security.

3 There are many other reasons to oppose
4 polygraph testing, including its unreliability and
5 its questionable history and effectiveness. You
6 will hear statements from other speakers on these
7 matters, so I will not address them.

8 I would like to use the few remaining
9 minutes of my time to identify the specific
10 sections of the proposed rule to which I object and
11 why.

12 Sections 709.3 and .12 specify that the
13 proposed examination consists of much more than the
14 polygraph machine test. The wording in these
15 sections leaves the examiner with too much latitude
16 in an open-ended pre-test interrogation in deciding
17 how the test questions are to be worded and
18 presented, and in making a judgment concerning
19 deception on the basis of the pre-test
20 interrogation as well as the machine test results.

21 What provisions are there to guard against
22 abusive and intimidating practices by the examiner?
23 How are we to be protected against biases? Are we
24 simply to trust the judgment of the examiner when
25 he is busy looking for evidence not to trust ours?

1 In addition, what assurances are there that
2 Laboratory management will not inject itself into
3 this process? Section 709.4, which defines to whom
4 the examination will be administered, is drawn so
5 broadly that it does not exclude that Lab
6 management will have to supply lists of employees
7 who are to be tested and in which order the testing
8 is to take place.

9 What protections are there that such lists
10 will not be engineered to target employees of, say,
11 Chinese or Russian ancestry, employees who are
12 union or employee rights activists, or employees
13 who management would like to get rid of anyway to
14 cover project cost overruns?

15 Further, it is clear from Section 709.15
16 that if the examination indicates deception or even
17 if the results are inconclusive, a full-blown
18 investigation is triggered, during which the
19 individual will likely lose the clearance or access
20 authorization, which amounts to the same thing as
21 losing the job.

22 The same consequences, according to
23 Section .14, befall an individual who refuses the
24 test or who fails to complete any part of it.

25 The fact that coercion is used -- threat of

1 loss of clearance and, hence, job -- to secure an
2 individual's consent to the test seems to me to be
3 illegal, unnecessary, and can even have a result
4 opposite to that intended.

5 People who will submit to such coercion are
6 more likely to be more vulnerable to foreign
7 intelligence agents than those who resist coercion;
8 thus, it is the people who refuse this test who are
9 the ones you should keep on the job.

10 Finally, I am not a lawyer, but it seems to
11 me that Section 709.22, which bars an individual
12 from having legal counsel present during an
13 interrogation that could lead to loss of
14 livelihood, would not withstand a court challenge.

15 In summary, I would like to commend
16 Secretary Richardson for all he has done to turn
17 back the many attempts by some members of Congress
18 to impose even more Draconian measures on the labs
19 in their misguided attempts to protect nuclear
20 weapons security, and I would urge him to turn this
21 one back, too, or, at the very least, completely
22 rewrite this rule so that polygraph testing would
23 be used only to support an investigation instead of
24 as a precursor to one.

25 This proposed rule has things the wrong way

1 about and can only lead to endless court
2 challenges, wide-scale resistance, and, ultimately,
3 a degradation of the science on which our nuclear
4 deterrent depends.

5 GENERAL HABIGER: Thank you very much,
6 Mr. Colvin.

7 Our next speaker is Dr. Douglas Post.
8 Dr. Post?

9
10 DR. DOUGLAS E. POST

11 MR. POST: Thank you.

12 I'm Douglas Post, Associate Division Leader
13 for Computational Physics, an A-Program.

14 Ladies and gentlemen, thank you for this
15 opportunity to comment on the issue of polygraphs
16 and our national security. I will address only one
17 of the many problems of polygraphs: The impact on
18 recruiting and retaining competent staff.

19 For recruiting and retaining competent
20 staff, it is neither my opinion nor your opinion
21 that matters. It is the opinion of the staff about
22 polygraphs that matters. This is a free country,
23 and people can freely choose their place of
24 employment.

25 I lead the A-Program Computation and Physics

1 Group at Livermore: about 100 physicists, computer
2 scientists, and systems operations engineers. We
3 develop the complex computer programs used to
4 simulate nuclear weapons. These simulations have
5 to be good enough to replace real experiments -- no
6 nuclear testing.

7 This enormous challenge requires an
8 unprecedented improvement in our simulations. If
9 we fail, the U.S. will be forced to return to
10 testing.

11 My group is responsible for about one-half
12 of the Livermore simulation programs. This work is
13 at the forefront of computational physics and
14 computer science.

15 We have to recruit and retain our staff in a
16 very competitive job market. Silicon Valley is 45
17 miles southwest of Livermore. The computer
18 companies there aggressively recruit good
19 computational staff. Even closer to us is
20 PeopleSoft, six miles west of here. You passed
21 them on 580 coming in. They had 3,000 job openings
22 last year.

23 There are a number of incentives to work at
24 Livermore, including: Challenging and important
25 problems; unprecedented computer resources;

1 opportunities to publish and do unclassified
2 research; a stable and supportive work environment.

3 There are also a number of disincentives,
4 including: Lengthy clearance processes -- up to a
5 year or more; strong physical and human security --
6 guards with guns, barbed wire fences, safes,
7 security procedures; a difficult computing
8 environment made more challenging by cybersecurity;
9 a lack of a public record of one's past
10 accomplishments being classified work, and,
11 therefore, somewhat lower job mobility; lower
12 salaries -- we offer less than the industry, not
13 more; and no stock options.

14 To these disincentives, we now plan to add
15 polygraphs.

16 These disincentives make recruiting very
17 difficult. The recruiting, clearance, and training
18 process now takes one and a half to two years. I
19 spend much of my time recruiting to add staff and
20 to replace those who leave to join the computer
21 community in the Bay Area.

22 Four of my best staff left my group in the
23 last two months due to security issues -- not
24 problems they had, but unhappiness with the
25 situation.

1 After waiting 13 months for a clearance, Ian
2 McGreer accepted a job with Netscape a week before
3 his clearance came through. Another left because
4 of his general unease about the whole security
5 atmosphere, including the two stand-downs ordered
6 by DOE with little or no planning.

7 Brian told us, "Life is too short, and there
8 are so many better places to work where some
9 bureaucrat won't shut me down for no good reason
10 that I can see, and there are guards with guns, and
11 I won't get punished for making a minor mistake."

12 You may or may not agree with Brian, but it
13 doesn't matter. It's a free country. Brian has
14 chosen not to work here. He works somewhere else,
15 and I'm busy trying to find someone half as good to
16 replace him.

17 I have two job offers out to prospective
18 staff who have both expressed a lot of concern and
19 fear about polygraphs. My experience shows me that
20 polygraphs will further erode our ability to
21 recruit and retain quality staff.

22 What do we get for this? I've looked at the
23 issue, researched as best I can, and have found no
24 convincing evidence that polygraphs are an
25 effective screening tool. Mr. Barland himself said

1 there's no way of telling if polygraphs are
2 effective or not.

3 I question the wisdom of relying on
4 polygraphs for screening for something as important
5 as national security. On the basis of a recent
6 polygraph interrogation I took myself as part of
7 NSA clearance, I think that some of these fears are
8 perhaps unfounded.

9 However, my views and your views on
10 polygraphs are, with all due respect, completely
11 irrelevant for recruiting and retaining staff. The
12 relevant views are those of the staff, and they are
13 scared of polygraphs due to the reputation and
14 abuse of polygraphs by law enforcement and
15 intelligence agencies.

16 Our best staff, especially computer
17 scientists and systems operations engineers, have
18 too many other choices with challenging positions
19 with higher pay, often with stock options, almost
20 none of the security restrictions we find here,
21 more opportunity for job mobility and public
22 recognition for their work without polygraphs.

23 Is the political cover and possible improved
24 security that polygraphs give DOE worth the real
25 degradation to national security that will result

1 from the exodus of good staff? I think not.

2 I appeal to you not to damage the security
3 of the United States with polygraphs.

4 Thank you.

5 GENERAL HABIGER: Dr. Post, thank you very
6 much.

7 Our next speaker is William O'Connell.
8 Mr. O'Connell?

9

10 WILLIAM O'CONNELL

11 MR. O'CONNELL: Good morning. I'm William
12 O'Connell, the president of the Society of
13 Professional Scientists and Engineers. I thank the
14 distinguished panel for the opportunity to present
15 these comments as part of the Federal Register and
16 rulemaking process.

17 The SPSE is an independent organization of
18 professional employees at the Lawrence Livermore
19 Lab and is interested in employee rights in the
20 workplace. I have had a lot of input on preparing
21 these comments, but in the final analysis, it's my
22 own work.

23 The first point I would like to address is
24 the unreliability of the polygraph tests.

25 Mr. Barland addressed this earlier, and I would

1 like to look at it from a different perspective.

2 The polygraph process, and especially as
3 a screening tool for a very minuscule fraction of
4 hypothesized spies, is an unreliable process.
5 There are the problems of false negatives, which
6 mean that the process does not really reinforce
7 our nation's security. There are also problems
8 of false positives, which put the reputations
9 and careers of loyal government employees in
10 jeopardy.

11 I won't launch into the continuing
12 scientific debate during this hearing today, but
13 I will just quote a summation by the U.S. Supreme
14 Court. In a 1998 decision, the Supreme Court
15 agreed that a military court was reasonable in
16 continuing to follow Military Rule of evidence 707,
17 which excludes polygraph examinations and the
18 opinions of the polygraph examiner from evidence
19 in their court system.

20 The Supreme Court noted that this rule
21 serves several legitimate interests of a trial
22 process, including ensuring that only reliable
23 evidence is introduced at trial. On this point,
24 the majority opinion notes,

25 "There is simply no consensus that

1 polygraph evidence is reliable. To
2 this date, the scientific community
3 remains extremely polarized about
4 the reliability of polygraph
5 techniques."

6 And they go on to cite several references
7 and statistics from different sides of the ongoing
8 argument.

9 The second point is that this polygraph test
10 procedure is an undue burden on loyal employees.
11 The false positive finding or a finding of lack of
12 complete cooperation in the test could result in
13 further complications, field investigations,
14 interruption or loss of career, and loss of
15 reputation.

16 A briefing by DOE for our employees last
17 Friday by the same speakers who spoke briefly this
18 morning elaborated on the test procedure which is
19 described briefly in the actual proposed
20 regulations.

21 The subject is alone in the test; no
22 independent witnesses allowed. The polygraph
23 examiner, to be certified, must be an experienced
24 counterintelligence or criminal investigator with
25 extensive additional training in interrogation and

1 in psychology. That is specified in the draft
2 regulations.

3 A pre-test interview of the examiner with
4 the subject clarifies the procedure and questions
5 and elicits any gray areas which the subject feels
6 might interact with his feelings when he is asked
7 the main questions.

8 Further, if upon completion of the
9 polygraph test there are any unresolved issues, the
10 polygraph examiner must conduct an in-depth
11 interview of the individual to address those
12 unresolved issues.

13 Thus, this is an in-depth interrogation
14 covering any topics where the subject feels an
15 associative link to the four question areas which
16 are the legitimate subjects of the examination.
17 Thus, it is rather broad, and it elicits a broad
18 range of information from the subject who must take
19 this test. It is open-ended in that sense.

20 Thus, I must admit that the polygraph
21 procedure is a tool of some power for an
22 interrogator, at least for some part of the subject
23 population, even if it is not of a known
24 reliability in its conclusions.

25 Thus, in summary, this screening polygraph

1 examination places a serious burden on the
2 employees and violates what are usually considered
3 an American citizen's civil rights.

4 There is not sufficient justification for
5 putting thousands of loyal employees of the
6 government through this process just to highlight
7 one or two who might equally well be brought to
8 notice by good fieldwork or rather specific
9 evidence.

10 I can tell you from my own recent
11 conversations that many Lawrence Livermore Lab
12 employees are troubled by the proposed polygraph
13 rule, by the false positives, or by the procedure
14 itself, and all for a result which is only modestly
15 effective at best in directing attention to real
16 positives.

17 And I am appending to my written comment,
18 which I provided, a formal statement by our
19 organization on this subject.

20 My third point is that focus on the areas of
21 real security problems would be more effective.
22 The recent congressional committees and the
23 President's committee have found security problems
24 in DOE, and these are mainly in management
25 follow-up and in physical security, procedural

1 security.

2 DOE has made improvements in some of these
3 areas, but much more could be done. And the focus
4 should be on areas where the real problems are
5 rather than being distracted by the polygraph
6 procedures and polygraph application.

7 Fourth, I note that congressional action on
8 polygraphs is under deliberation in Congress but
9 has not yet been completed. The DOE should extend
10 its comment period and wait and see what the
11 Congress decides.

12 In particular, the latest draft
13 congressional bill language is that from the House
14 Senate Conference Committee which differs somewhat
15 from both an original House version and the Senate
16 version. And this calls for polygraph testing of
17 some DOE contractor employees but a rather strict
18 scope of programs within the defense programs.

19 The proposed DOE rule covers a similar list
20 of programs but also one much broader and rather
21 vague category, which has been mentioned by another
22 speaker.

23 10 CFR 709.4(a)(6) basically positions that
24 the DOE Secretary has determined to have a
25 need-to-know or access to information designated by

1 the Secretary or his delegatee concerning nuclear
2 weapons information. That is a rather broad
3 category and basically could include all personnel
4 who have a Q clearance and are using their
5 Q clearance actively in a classified work. And
6 that goes beyond what the Congress is considering
7 in its latest round.

8 And I will be submitting some further
9 written comments later in the comment period to
10 expand on some other points, notably that if there
11 is to be polygraph testing, the range of questions
12 should be specified more narrowly, and the test
13 should be made a simple test, with the witness
14 present, perhaps with the subject being able to
15 select his own polygraph examiner, and just asking
16 the basic questions rather than going into an
17 in-depth probe of all subjects which are somehow
18 linked to the question areas.

19 Thank you for the opportunity to comment,
20 and hopefully public comments will have some
21 influence on the final form of the rules which are
22 being developed in this present rulemaking process.

23 Thank you.

24 GENERAL HABIGER: Thank you, Mr. O'Connell,
25 for that very valuable input.

1 Our next speaker is Mr. Michael Axelrod.

2 MICHAEL AXELROD

3 MR. AXELROD: Good morning. My name is
4 Michael Axelrod. I'm with the Division Sciences
5 Group at Livermore Laboratory. I've been at the
6 Laboratory about 25 years.

7 In some respects, my comments will amplify
8 the previous speakers. Specifically, I'd like to
9 deal with the section of the CFR that says,

10 "However, DOE is aware of no
11 scientific studies that establish
12 that polygraph examination results
13 are unreliable for use as an
14 investigative tool as DOE has
15 proposed to use them."

16 Usually one has to prove a positive and not
17 a negative. Nevertheless, I'd like to furnish some
18 references which I have found. If the DOE can
19 present us with further evidence or even newer
20 studies, I'd be very happy to read them, as my
21 colleagues would, too.

22 First one is the scientific validity of
23 polygraph testing. This is an OTA report,
24 published 1983. I will read briefly one of the
25 summary statements.

1 "OTA concluded that the available
2 research evidence does not
3 establish the scientific validity
4 of the polygraph test for personnel
5 security screening. OTA was able
6 to identify only four studies
7 directly relevant to personnel
8 security screening use."

9 More recently, Professor Hunt -- and I might
10 add that Professor Hunt is a recognized authority
11 in polygraph and generally would come out on the
12 side of polygraph testing in the criminal
13 investigative arena. He was the author of a friend
14 of the court brief submitted to the Supreme Court
15 in the case that Bill told you about.

16 Here is an article by him, published in
17 Forensic Reports in 1991. I'll quote a few
18 relevant sentences.

19 "All uses are controversial, but
20 the screening uses particularly so.
21 Polygraphers' claims of high
22 utility on the basis of development
23 of information during
24 interrogations are suspect because
25 the information they develop has

1 never been shown to be predictive
2 of future behavior."

3 One of the problems we have in mass
4 screening is the same you have in medical mass
5 screening. You try to identify a very small
6 group. This is why there's no mass screening for
7 AIDS. You're very susceptible to the false
8 positive rate.

9 Let me give you a specific figure that I
10 worked out. If we take some very optimistic
11 numbers for false positive and false negative, say,
12 10 percent, we give someone a test; he comes out as
13 being deceptive. What is the probability he's
14 actually deceptive?

15 If you work that out, assuming about 1 in
16 1,000 -- and I think this is probably an
17 overestimate -- of spies or saboteurs or espionage
18 people are actually in the population. I think
19 that's an overestimate because here we'd be dealing
20 with a population of employees that has already
21 been screened by an investigative process.

22 The result is less than one percent
23 probability he's actually being deceptive. This is
24 an almost incontrovertible result. It follows
25 directly and mathematically from the assumptions.

1 Now, Dr. Hunt does pick up on this. It's
2 called the base rate problem. And I'll read you
3 this.

4 "This concerns a study done by DOD
5 poly in 1989. It was a mock
6 espionage test. You had a 50/50
7 breakdown between the guilty and
8 the innocent."

9 The results of Barland announced that he
10 suggested the polygraph techniques used by the
11 Federal government for periodic screening are
12 accurate with innocent subjects but that they are
13 no good with guilty subjects.

14 Another comment. CSP, Counterintelligence
15 Scoping Program, is highly ineffective at detecting
16 deception.

17 So, thus, we see perhaps the real problem is
18 not so much the false positive rate, but it's
19 actually the false negative rate. Are we wasting
20 the taxpayers' money with a program that is not
21 going to bear much fruit and is likely to cause
22 damages to morale and recruiting as the other
23 speakers have described?

24 I will submit written questions or written
25 statements to the DOE on this issue, and I will

1 also prepare a white paper for anyone who's
2 interested in seeing it.

3 Thank you very much.

4 GENERAL HABIGER: Thank you very much, sir.
5 Mr. Tom Reitter?

6

7 TOM REITTER

8 MR. REITTER: Hello. My name is Tom
9 Reitter. I'm a mechanical engineer at the Lab,
10 speaking for myself. Thank you for holding this
11 hearing in Livermore.

12 A lot of what I had planned to say has been
13 alluded to already, so I'll try to summarize a
14 little more quickly.

15 The DOE proposes to use polygraph on a
16 large scale to screen thousands of current and
17 future employees to detect and deter espionage
18 and inappropriate disclosure of classified
19 information.

20 I believe this will be ineffective for its
21 stated purposes and will have the unintended
22 consequence of actually reducing national security
23 by reducing the technical expertise at DOE
24 laboratories.

25 At considerable expense, the screening

1 process will identify a number of false positives.
2 These people will be put through very stressful,
3 detailed, further investigations before they are,
4 hopefully, exonerated.

5 Of course, some valuable employees will quit
6 before they are exonerated.

7 I am even more concerned about false
8 negatives. Will any actual agents be spared
9 further scrutiny?

10 I have known a number of people who
11 frequently gave incorrect information with great
12 sincerity, yet they were not necessarily lying.
13 Some people have to change the truth in order to
14 remember it, is what I have concluded.

15 If someone thinks they are telling the truth
16 about their inappropriate past behavior, how can a
17 polygraph catch them?

18 The impact of polygraphing on retention or
19 recruitment has been glossed over, I believe, in
20 the Federal Register. Perhaps people in the
21 intelligence or counterintelligence work have no
22 problem with polygraphing. But many scientists,
23 engineers, and technicians doing classified,
24 technical work do not see it that way.

25 I have been at the Lab 26 years, yet I still

1 remember the culture shock of coming here from an
2 academic environment. During my 26 years, I've
3 also been aware that there is a bias among
4 technical workers in favor of doing unclassified
5 work because of the absence of ever-increasing
6 security requirements and the possibility of
7 establishing a reputation in the larger technical
8 community.

9 Polygraphing may seem like a minor thing to
10 those in security, but it may well be the straw
11 that breaks the camel's back for some technical
12 people.

13 Most important of all is the fact that it is
14 the best people and the younger people who have the
15 most options for going elsewhere.

16 Very detailed research is necessary on the
17 effect of polygraphing on retention and recruitment
18 of the best people before anyone can dismiss its
19 impact.

20 The impact may not be immediately apparent,
21 however. Given the strong bias in technical fields
22 outside against people over 40 and the desirability
23 of the University's retirement plan, Lab employees
24 between 40 and 60 will put up with more annoyances
25 than will younger people.

1 But for the future, the DOE labs need an
2 even larger pool of talent from which to choose
3 employees. Instead, polygraphing will further
4 shrink the pool of available talent for classified
5 work.

6 It is noted on page 45064, column 3, that
7 all polygraph examinations administered by DOE are
8 voluntary. This is very misleading. Anyone who
9 refuses will probably be given a few months to find
10 an unclassified job.

11 But there aren't enough unclassified jobs,
12 and the competition will become even stiffer if
13 there are a significant number of refusers. So
14 refusal will, in most cases, lead to termination,
15 thus, a cloud on future employment.

16 On page 45069, top of first column, it is
17 claimed that the DOE may not ask questions that
18 concern conduct that has no security implication.
19 Wouldn't anything that is embarrassing and,
20 therefore, produceable for extortion be considered
21 relevant?

22 Also, the questions that have been discussed
23 publically are much more limited than what is
24 discussed in the Federal Register. Why should we
25 believe that the questions won't become more

1 intrusive if the initial furor over polygraphing
2 dies down?

3 I think polygraphing should be avoided in
4 favor of other methods for improving security. The
5 Senate Select Committee on Intelligence several
6 months ago said that they wanted to see alternative
7 methods investigated.

8 One example that comes immediately to mind
9 is the screening of large numbers of employees for
10 whom there is no existent cause for suspicion would
11 certainly be cheaper and probably more effectively
12 done by having everyone answer the relevant
13 questions, with expanded responses as appropriate,
14 on paper, under penalty of perjury. Standard
15 investigative techniques could then be used to
16 identify employees whose responses suggest the need
17 for more information.

18 In summation, large-scale polygraphing
19 would be very expensive, ineffective, and
20 detrimental to retaining and recruiting the best
21 people for technical work vital to our national
22 security. I urge you to reconsider the proposed
23 implementation.

24 GENERAL HABIGER: Mr. Reitter, thank you
25 very much for your insightful comments.

1 Mr. David Dearborn.

2 DAVID DEARBORN

3 MR. DEARBORN: My name is Dave Dearborn.

4 I'm a physicist here at Lawrence Livermore National
5 Labs. And in the years I've been here, I've worked
6 on basic physical processes that are pertinent to
7 weapons; I've fielded -- proposed and fielded
8 experiments for detecting clandestine nuclear
9 explosions; I've designed and fielded a number of
10 nuclear tests.

11 I more recently was heavily involved in the
12 W87 Life Extension program, the W78 peer review,
13 and have participated in a number of other
14 stockpile support issues.

15 I've received two Weapons Excellence awards
16 from the DOE: one for work on lasers and one for a
17 new powerful method for analyzing radar data of
18 re-entry vehicles. And, in addition to that, I
19 regularly publish in astrophysics and archaeology,
20 so fortunately I've kept my employability outside
21 the Lab available.

22 In addition to that, I've received the
23 Shelby Fellowship of the Australian Academy of
24 Science. Also fortunate it's not a sensitive
25 foreign country.

1 Earlier this year, the Secretary informed us
2 through the media that we'd been ordered to
3 stand-down for a refresher security awareness
4 course.

5 As part of that re-education experience, an
6 FBI officer and security consultant gave us a most
7 entertaining lecture that included anecdotes
8 regarding two spies. Neither of these traitors had
9 been caught through polygraph screening. They did
10 fail after they had been caught, and that is
11 consistent with the American Association of
12 Polygraphers' statement of how polygraphs should be
13 used as part of an investigation. With the proper
14 investigation behind them, they're a useful
15 interrogation tool.

16 The OTA report that was just referred to
17 also expressed concern for the viability of
18 polygraphs to genuinely address security risks.
19 Unless anyone claimed that the procedures have
20 improved, in 1997 testimony to the Senate Committee
21 on the Judiciary, Dr. Drew C. Richardson of the FBI
22 Laboratory went further by stating that polygraph
23 screening is completely without theoretical
24 foundation and has absolutely no validity.

25 He further said that the diagnostic value of

1 this type of testing is no more than that of
2 astrology or reading tea leaves.

3 Now, of course, the subjectivity of the
4 polygraph exam is in some sense a win/win for the
5 Department of Energy. An agency that wants its
6 people to pass will find most of them doing so.
7 And I was assured by friends of mine who take
8 regular polygraph exams for the DOD, "Don't worry;
9 if they want you to pass, they'll scoot you through
10 it; not a problem."

11 Perhaps this encouragement that that works
12 to get us through is the source of the very high,
13 almost unbelievable accuracy rate that we've heard
14 in the newspapers and seen again today.

15 Accepting those claims of .2 percent,
16 though, means that in an organization the size of
17 Livermore, 15 people develop the employability of
18 Win Ho Lee being innocent. In a room this size,
19 the probability is that one person, if it were
20 filled, would be falsely accused and completely
21 fail that test. So it's not a zero. And the
22 question is what we're getting back from this.

23 And there's a second benefit for the
24 Department of Energy. In the past, when people
25 have reached out with concern for employees who

1 have exercised their freedom of speech -- not
2 divulged secrets but simply said things that were
3 not aligned with DOE policy -- there have been
4 cases where people have reached out to have
5 individuals fired.

6 Fortunately, the University of California
7 has a strong belief in freedom of speech, a
8 constitutional right, and they found it difficult.
9 It might not be so difficult in the future with
10 this sort of interrogation process available
11 anytime someone in management is annoyed with us.

12 Now, these questions may seem a little
13 harsh, but an agency that makes such an Orwellian
14 use of the word "volunteer" really has to expect
15 this type of response.

16 Here at Livermore, we take our security very
17 seriously. My colleagues and I have produced the
18 secrets that you come here claiming to protect. We
19 work very hard to wrestle them from nature, and we
20 recognize their value.

21 We further recognize ourselves to hold
22 positions of trust, and we've already allowed
23 extensive intrusion into our lives by making
24 available our financial, legal, health records, as
25 well as by answering in-depth questions on our

1 friends, relations, and much more. We are
2 regularly investigated already.

3 Yet you're coming here and you threaten our
4 honor and integrity requiring us, on effective
5 threat to our employment, to volunteer for an even
6 deeper intrusion into our rights to privacy, and
7 it's through a procedure that seems flawed and
8 where there seems to be a free hand to terminate
9 any employee who speaks his conscience.

10 If you choose to implement this astrology
11 surrogate and treat us with such deep disrespect,
12 don't confuse the contempt for arrogance that we
13 are accused of.

14 GENERAL HABIGER: Thank you, sir.

15 The next speaker is Mr. William Tong.

16

17 WILLIAM TONG

18 MR. TONG: Good morning. I'm a limited-term
19 employee working in the UV Program here at Lawrence
20 Livermore. "Limited-term" means that I'm basically
21 a year-to-year contractor. And I enjoy working at
22 Lawrence Livermore so far. I have found it an
23 exciting place to work; I'm learning a lot; and, to
24 be honest, I'm keeping my eyes open for a permanent
25 opening here.

1 But I'm troubled by this new requirement
2 that employees that work on national security
3 issues will be required to take polygraph tests.

4 And I think the previous speakers have
5 already talked about the unreliability of the
6 polygraph test, so I'm not going to go into too
7 much detail except for the fact that I will compare
8 polygraph tests to fortune-telling.

9 I mean, you hear a lot of people, you know,
10 coming back from fortune-tellers saying that, "Oh,
11 my God, they're really accurate; they nailed it
12 right on the head."

13 Except what all these people do is they can
14 tell from the way you dress, the way you carry
15 yourself, that maybe you have trouble with your
16 wife or maybe a person has trouble at their job --
17 just from your demeanor.

18 The polygraph examiner simply has a machine,
19 and, you know, it's an accurate machine, and that
20 can help them measure that. So, you know, they
21 have a higher probability -- 60 to 90 percent. You
22 know, that's what I read.

23 I mean, I don't believe this 99.8 percent
24 number. I mean, if you ask a fortune-teller
25 whether they are accurate or not, they would tell

1 you it's 100 percent, too.

2 So, yes. And also, it's very subjective to
3 the examiner. It depends on how good the examiner
4 is; it depends on the subject. Some people can lie
5 with calmness; other people get nervous and start
6 sweating even before the question is asked. So to
7 me, it's very subjective.

8 Now, the trouble with the polygraph is that
9 it has this mythical reputation of being accurate.
10 You know, you always hear people say in public --
11 or a certain suspect for some crime, "I'm willing
12 to take a polygraph test," as if that would prove
13 his innocence.

14 Or if someone refuses to take a polygraph
15 test, the public would tend to think, "Oh, he's
16 probably guilty," even though, you know, there's --
17 nobody knows how accurate this test is. I mean,
18 you hear varying opinions.

19 Now, in the private sector, you know, an
20 employee can refuse a lie detector test or maybe
21 fail it even, and then -- you know, if I worked at
22 McDonald's or Costco or something and they think I
23 stole some money and then I fail a lie detector
24 test, I get fired, and that's the end of that.

25 But here, you know, you have the FBI, the

1 CIA, the DOE -- all the investigative tools behind
2 you. I mean, you know, they are all ready to
3 pounce on me, to investigate my life. That is very
4 scary.

5 And also, in a bad political climate, such
6 as the current one with the Chinese spy -- and I am
7 Chinese-American -- when everybody is looking for a
8 scapegoat, and, if I -- if the suspect -- you know,
9 if the word leaks out, someone will leak out the
10 word that the suspect refuses to take the polygraph
11 test, he might as well be convicted.

12 I mean, people -- it's happened before.
13 Look at Richard Jewell, I think, at the Atlanta
14 Olympics a few years ago. They were looking for a
15 scapegoat. And basically, words got leaked out,
16 and then everybody assumed he was guilty. This is
17 all very scary.

18 So let me go to my second point. Now, I
19 think you made a point or -- this proposal only
20 applies to those who engage in weapons work. And
21 frankly, most scientists -- the mission of the Lab
22 is for national security. And most scientists who
23 contemplate a career here will do some weapons work
24 in their career.

25 Now, I hope that most people here who are

1 into making weapons -- who are making weapons don't
2 do it because they enjoy making weapons. I mean,
3 they do it probably because they believe in this
4 country. They believe that they are helping to
5 maintain a free democracy and not to promote a
6 police state or a totalitarian regime.

7 And someday, perhaps, maybe the technologies
8 that we develop here will overturn totalitarian
9 regime like the Nazi Germany of Adolph Hitler or
10 the current Yugoslavia regime of Slobodan
11 Milosevic. These are police states.

12 Now, random polygraph test is a tool of the
13 police state. It is an invasion of privacy.

14 Now, you may -- you may be able to argue
15 that polygraph tests will help us stay
16 technologically ahead of police states like China
17 or Yugoslavia, but I ask you: What's the point
18 when, in doing so, in trying to stay
19 technologically ahead, we become a police state
20 ourselves?

21 Thank you.

22 GENERAL HABIGER: Mr. Tong, thank you very
23 much.

24 Our next speaker is Mr. Patenaude. And I've
25 butchered your name, sir.

1 MR. PATENAUE: You got it right.

2 GENERAL HABIGER: Thank you, sir.

3

4 STEVE PATENAUE

5 MR. PATENAUE: Hello, members of the panel.

6 I'm an employee of the University of California
7 Lawrence Livermore Laboratory, now entering my 37th
8 year as a scientist, and I represent myself.

9 I'm here today to add my voice to the
10 growing throng of those who are opposing the use of
11 polygraph testing as an improvement in security.

12 After extensive reading, I have concluded
13 that polygraph testing has highly questionable
14 value as a scientific tool, offering little
15 counterintelligence improvement to security while
16 exposing enormous risk to those who are forced to
17 take polygraph tests. After all, scientific method
18 is a mission of this Laboratory.

19 My main concern is that subjective testing
20 like polygraph could be used by unscrupulous
21 individuals to selectively silence unpopular voices
22 of dissent, a well-established condition of which
23 the Department of Energy and State Department has
24 past knowledge.

25 As a teen-ager, I could not understand why

1 the adults of this era were so upset over the
2 words of some obscure senator's voice crackling out
3 of the radio saying, "Mr. Smith, are you now or
4 have you ever been a member of the Communist
5 party?"

6 I would not too much later come to loathe
7 those words. And now, gentlemen, here we are again
8 facing the 1950s' loyalty oath question wrapped in
9 the security shell as "polygraph testing."

10 I love my country. For nearly four decades
11 I have been intimate with the naked beauty, the
12 terror, and the enormous destructive potential of
13 nuclear weapons, and I'm here to tell you in the
14 strongest possible terms: I cannot imagine any
15 circumstance in which I would betray the secrets to
16 anyone, much less those of a foreign power.

17 This fact is something that you must trust
18 me on; however, polygraph testing is contrary to
19 that trust. Without this trust, the nuclear game
20 is over.

21 I would like to read to you a few sentences
22 taken from the January 21st, 1999, Congressional
23 Record given on the floor of the United States
24 Senate by former Senator Dale Bumper.

25 H.L. Mencken once said, "When you hear

1 someone say, 'It's not about money,' it's about
2 money. And when you hear someone say" -- speaking
3 of the impeachment charges -- "'It's not about
4 sex,' it's about sex." And so today when you hear
5 someone say of polygraph testing, "It's not about
6 politics," it's about politics.

7 I have willingly devoted most of my adult
8 life to the furtherance of science at this
9 Laboratory, and I find being here today, in one
10 word, incredulous. I could not have imagined a
11 more corrosive force to this Laboratory than
12 distrust. I can only speculate that espionage
13 would do less damage to the national security than
14 institutional distrust of the very people now
15 charged with the protection of its national
16 secrets.

17 I fear for the continuance of the University
18 of California management of this great institution.

19 Time and circumstance may prevent me from
20 making the difficult decision, "Will I submit to
21 the polygraph test?" When and if that time comes,
22 there can be little doubt as to how I must choose.

23 GENERAL HABIGER: Thank you very much, sir.

24 Our next speaker is Tom Thomson.

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THOMAS THOMSON

MR. THOMSON: Thank you. I'm Thomas Thomson. I have been working at the Lawrence Radiation Laboratory since 1965. And since that time, I have been a warhead designer for the improved Spartan ABM system, the HardSite ABM system, the W79 Artillery Fired Atomic Projectile, special nuclear devices for underground nuclear weapons effects testing, special purpose nuclear warheads.

I led the physics group that originally was assigned to assess the utility of high-energy lasers to nuclear weapons design issues. I have also served as a project leader for the W70 Lance tactical missile warhead, and project leader for the W62 Minuteman III warhead.

I've participated in the design and execution of 24 nuclear underground tests. In 1985, I was the recipient of the DOE award for innovation in nuclear design.

I currently serve as Deputy Thermonuclear leader for Plans.

I speak today on behalf of American democratic principles. First, let us be clear as to what the real issue is today. It is not about

1 espionage, it is not about polygraph machines, and
2 it is not about nuclear secrets. It is about
3 political control.

4 It is about suppressing dissenting views.
5 It is shocking that after a lapse of 200 years,
6 this administration is attempting to resurrect the
7 evils of the Sedition Act of 1798, an act notorious
8 for its blatant political motivation.

9 The Sedition Act of 1798 intended to reenact
10 the English common law of seditious libel. This
11 law, according to Kelly and Harbison of
12 The American Constitution, permitted very broad
13 prosecution for seditious libel subsequent to the
14 publication of anything unfriendly to the
15 government.

16 The truth of the published matter at issue
17 did not constitute a defense, and the judge had the
18 sole power to decide whether or not it was
19 libelous.

20 J.D. Hicks in The Federal Union speaking on
21 this matter stated,

22 "The Sedition Act, like the Alien
23 Acts, accomplished more by the
24 threat it made than by any actual
25 enforcement. A large number of

1 indictments were returned, but only
2 a few persons, most of them
3 prominent Republican editors, were
4 ever brought to trial. When the
5 trials were held, however, the
6 methods of the prosecution were as
7 ruthless as the law under which the
8 charge was made."

9 The polygraph screenings now proposed will
10 serve the same purpose. Rather than having to
11 publish unfriendly articles, the crime will have
12 unfriendly squiggles on a chart. And the
13 interrogators will be the sole judges as to whether
14 or not this constitutes sedition.

15 Likewise, innocence will be no defense. The
16 crime is failure to pass the test. The truth or
17 falsity of the questions is not important. Just as
18 in the Sedition Act, more will be accomplished by
19 the threat than by the actual enforcement.

20 On this issue, I stand strongly with the
21 President -- Jefferson not Clinton.

22 What is it that this administration hopes to
23 accomplish with this new Sedition Act? They hope
24 to accomplish precisely what the framers of the
25 original Act hoped to accomplish -- the silencing

1 of dissent.

2 This should come as no surprise. When this
3 administration first came to power, their first
4 Energy secretary stated that her first priority
5 would be accountability. I hope no one was so
6 foolish as to think this had something to do with
7 numbers or ledger books. This was a politician
8 speaking, and when a politician speaks of
9 accountability, they mean political accountability;
10 you will answer for your dissent.

11 So the question is not about the veracity of
12 polygraph screening tests -- they are well known to
13 be useless for their stated purposes. The question
14 is what dissenting views are they now afraid of.

15 Faced with the evidence of gross
16 mismanagement, Congress has recently seen fit to
17 order the restructuring of the Energy Department.
18 And to date, Congress has only scratched the
19 surface. I urge them to get at the truth. They
20 must parse every statement and diagram every
21 sentence until they understand what the meaning of
22 is is.

23 Read every statement as if it was meant to
24 mislead, and they will reap a rich harvest. Pay
25 attention only to statements under oath and

1 official documents. All the others are just spin
2 and are not meant to clarify or to find the truth.

3 It is a truism that institutions only worry
4 about heresy when they have begun to rot from
5 within. And just what rot is this administration
6 trying to hide from the Congress and the American
7 people?

8 GENERAL HABIGER: Mr. Thomson, thank you
9 very much.

10 I'd like to call our next speaker,
11 Mr. Manuel Garcia, please.

12 MR. GARCIA: Thank you. I'm Manuel Garcia.
13 I'm here representing Norm Thomas who was unable to
14 be here. I will read his statement.

15 However, I am a person in my own right, and
16 I had wished to also address the assembly, and I
17 thought that I was on the schedule to do that.

18 So without further ado, I will read Norm
19 Thomas' statement, which is quite short and you
20 have a copy of, and then I will read my own, which
21 is also very brief. I think I can do this well
22 within ten minutes.

23 So first, in the name of Norm Thomas, an
24 employee here for 30 years or so, a member of SPSE,
25 I will read directly from his testimony.

1 Excuse me. I think that it's pretty clear
2 that we're actually speaking to these
3 people (indicating).

4 I also think, if I may add one personal
5 comment, in preparing for today's testimony, I was
6 reviewing E-mail that we received that informed us
7 that six polygraphers had already been hired in
8 anticipation of implementing this rule. This
9 affected me very strongly in preparing my comments.

10 I thought that the purpose of the hearing in
11 anticipation of a rule was to help sway you before
12 making a decision. I personally find it sad -- I'm
13 slightly angry -- that I feel I'm participating in
14 what's essentially a charade because you already
15 have concluded that you are going to proceed with
16 this and that our opinions are of little
17 importance.

18 I would like to then spin a tour through the
19 ancient days. In Greece -- in ancient Greece about
20 25 centuries ago, slaves all were considered
21 unreliable witnesses. And so in order to get -- of
22 course, their opinions were of no matter.

23 And to get testimony from slaves, you had to
24 torture them. This was required through court. If
25 a slave was considered, torture them. And it's a

1 shame that 25, 30 centuries later, our government
2 views us as a servile class, not to be listened to
3 regarding the process, but, when necessary to
4 extract information of an evidentiary nature, must
5 be essentially tortured.

6 I think you can see the tenor of my
7 comments. Let me read from Norm first.

8 NORMAN THOMAS

9 (As Read By Manuel Garcia)

10 MR. GARCIA: "My Encounter with Polygraph
11 Testing."

12 In the spring of 1961, when I was a physics
13 student at a California university studying for the
14 Graduate Record Exam, the chairman of the physics
15 department asked me to help at an American
16 Association of Physics Teachers meeting by running
17 a 16 millimeter movie projector.

18 When I arrived at the physics lecture hall
19 the next Saturday morning, I found the projector
20 already set up. I threaded the film through and
21 proceeded to show the instructional physics movie.

22 After the meeting, I rewound the film,
23 returned it to the chairman, left the projector
24 where I had found it, and returned to my apartment.

25 After my first physics class the following

1 Monday, I was called into the physics department
2 and asked, "Where did you put the movie projector?"
3 I said, "I left it in the lecture hall." It turned
4 out that the projector could not be found. And so
5 my life for the next two weeks encompassed a series
6 of traumatic encounters with the campus and local
7 police departments.

8 On Tuesday, the campus police interrogated
9 me under a bright light in a closed room. They
10 asked, "Why did you take the projector?" "Where is
11 the projector?" they asked. My pleas of innocence
12 were ignored.

13 On Wednesday, I was asked to take a lie
14 detector test which was to be administered at the
15 school's Department of Criminology by the local law
16 enforcement agency. They told me that they could
17 not force me to take the test, but since I had
18 nothing to hide, I agreed to take it.

19 To my shocked surprise, the polygraph test
20 results were positive. According to the machine, I
21 was a thief, a felon. Now the police investigators
22 knew they had their perpetrator.

23 In the days that followed, I felt that I was
24 under surveillance. The local police asked if they
25 could visit my apartment. I agreed again knowing

1 that, since I was innocent, nothing in my apartment
2 could incriminate me.

3 They immediately followed me into my
4 apartment, apparently so that I wouldn't dispose of
5 any evidence of my crime. They searched every
6 room, cupboard, and closet in my apartment.

7 Upon closing one closet, they discovered my
8 legally-owned revolver at the top shelf. They took
9 it to a table, examined it thoroughly, and recorded
10 the serial number. Even though they did not find
11 the missing projector, this discovery had
12 apparently confirmed their idea that I was a
13 criminal, now possibly in the possession of other
14 stolen property.

15 My orderly world was collapsing around me
16 into a chaos at a critical point in my professional
17 career: just before my Graduate Record Exam. I was
18 traumatized.

19 Finally, after two weeks, on a Monday
20 morning, the department secretary called me to say,
21 "We found the movie projector locked in the
22 chairman's office this morning."

23 They now knew that no crime had been
24 committed; however, I never received even a letter
25 or even a phone call from the campus police or

1 local law enforcement agency telling me that my
2 polygraph test had resulted in a false positive
3 indication, nor was there any semblance of an
4 apology ever made to my inconvenience, problems, or
5 terror this false indication caused me, nor was I
6 ever informed that a percentage of polygraph tests
7 will always result in false positives.

8 But I was most certainly personally informed
9 about what an innocent person giving a false
10 positive during a voluntary, in quotes, polygraph
11 test mentally goes through, and it is an experience
12 I would wish upon no one else.

13 This incident at the very beginning of my
14 professional career taught me never to trust the
15 results elicited by polygraph machines and their
16 operators.

17 Today, almost 40 years later, at the climax
18 of my professional career, we face an
19 institutionalizing of polygraph testing at LLNL.
20 From my firsthand knowledge of what can happen when
21 such tests fail, I urge DOE, the University of
22 California, and Lab management to reject the policy
23 of polygraph testing certain Lab personnel or of
24 testing new hires as a condition of employment for
25 certain jobs.

1 End of quote.

2 Norman Thomas. September 8, 1999.

3 He is in the Chemistry and Materials
4 Sciences Department. I wish he could be here.
5 He's better speaking his own words than I am.

6 MANUEL GARCIA

7 MR. GARCIA: I will now read my statement.

8 I've been here 21 years. In 1989, I was at
9 the peak of my career as a Lab employee. I had
10 done an experiment that Dearborn and Thomson might
11 consider useful for nuclear weapons.

12 I was celebrating the collapse of the Cold
13 War and thinking that finally my family, who had
14 lost the family fortune in Cuba, was reaping some
15 reward for its involvement -- its visceral
16 involvement in trying to do something for freedom.

17 I now believe that that faith was misplaced.

18 Statement to the DOE on polygraphs, by
19 Manuel Garcia. My abstract: The value of LLNL
20 will diminish with polygraph.

21 In your haste to regain your dignity, don't
22 lose your honor.

23 I believe that SPSE has stated the best
24 course of action which is, quote, open a dialogue
25 with Laboratory workers themselves as to how

1 security can be improved, end quote.

2 Intimidating us further is neither an
3 honorable nor an effective substitute for security
4 measures.

5 Now, the outline of my presentation is the
6 following -- I have three points.

7 Point one: Polygraph does not address the
8 basic security issues. And three examples:
9 "Physical security of documents." I don't have my
10 briefcase. My briefcase up there has a nice copy
11 of Jonathan Swift, which might be considered
12 seditious literature, might count as classified.
13 But if I wanted to take classified out of this
14 Laboratory, I'd put it in my briefcase, walk out
15 the gate.

16 Now, if I do this at Cody's Books in
17 Berkeley: ding, ding, ding, ding, ding. Why don't
18 the documents here have little metal detectors that
19 go off? "Best industrial practice" I think is what
20 it's called.

21 Have physical security. "The physical
22 security of computer networks." I understand that
23 some of our foreign colleagues who work in nuclear
24 weapons have classified offices in classified
25 buildings and unclassified offices in unclassified

1 buildings. There are no wires between them; no
2 computer security problems. Again, a noteburner.

3 "Travel disclosures." KGB and other very
4 effective counterintelligence agencies simply
5 interview travelers going on high-risk trips
6 before, during, and after. They don't need
7 polygraphs; they just talk to people.

8 We are not against security. We are the
9 purpose -- we understand security very well. I
10 understand the misuse of security also.

11 And, thirdly, perhaps the most important,
12 why not simply reduce the amount of distributed
13 classified rather than increasing the number of
14 people at jeopardy? I mean, the easiest way to
15 keep a secret is not to tell anybody. Right?

16 So those are sort of three issues on
17 actually addressing the security issues rather than
18 doing this distractional polygraphy.

19 Second point: "Polygraphy is
20 pseudo-science, and it will cheapen the image of
21 DOE science labs." It is a deterrent to
22 intelligent prospects of which we've heard. It is
23 a deterrent to people of principle whom I claim you
24 have too few of in this Laboratory and certainly in
25 your agency in the government.

1 Third: "Polygraphy is a degradation of
2 employee and citizen rights." You ask for one-way
3 trust. We have to trust you; you don't trust us.

4 Let me tell you this: You want to
5 interrogate me without a representative.
6 Interrogation without representation is fascism.
7 I'll say that again in case you didn't hear it.
8 Interrogation without representation is fascism.

9 DOE lacks credibility as a trustworthy
10 agency. It lacks -- it lacks a response in
11 employee concerns about equity and management
12 accountability and safety. And there's a lack of
13 response in aiding employees suffering reprisals --
14 witness the Lappa case.

15 I'm going to give you my three-minute
16 speech.

17 DOE does not deserve this power. It has
18 failed to listen to employee concerns on equity,
19 mismanagement, safety, and retaliation -- witness
20 the Lappa case now pending.

21 And there is no reason to believe that it
22 will not abuse this power. Sloppy management,
23 excessive distribution of classified material,
24 racially-tinged and inept securities investigations
25 and a disdain for employee involvement in policy

1 questions do not add up to a just cause for further
2 intimidation of a productive workforce with a
3 personally invasive pseudo-scientific inquisition.

4 "Above all else, do no harm," to paraphrase
5 Hippocrates. I do not relish having my body
6 invaded to have my mind raped by a class of
7 latter-day phrenologists and soothsayers.

8 Do your homework instead. Follow through on
9 gumshoe investigations. Diminish the number of
10 classified documents and networks. Secure them
11 with physical barriers. Interview travelers as
12 needed. These are the measures that unmask
13 espionage.

14 You are more likely to lose talented people
15 of principle and trample on the rights of unlucky,
16 honest citizens -- people whom you should prize --
17 than to nab spies or see this intimidated workforce
18 produce anything worth spying on.

19 The rush to polygraphy is symptomatic of a
20 lack of vision or faith in democratic principles.
21 It is this attitude on your part more than anything
22 else that has precipitated the crises of confidence
23 you now face.

24 Safeguarding our most personal rights is the
25 fundamental point of national security. If you are

1 willing to sacrifice that, then you eliminate any
2 moral justification for your agency and its
3 actions.

4 Now, more for my colleagues than the panel,
5 I'd like to read a quote that I think helps to
6 summarize the situation. I commented earlier to a
7 friend of mine that I have a personal belief and a
8 pessimistic one that it's easier to find brains
9 than backbone here. And I encourage a little
10 calcium supplements because we may need it in the
11 coming days.

12 "The great wish of some is to
13 avenge themselves on a particular
14 enemy" -- perhaps those spies --
15 "the great wish of others is to
16 save their own pocket. Slow in
17 assembling, they devote a very
18 small fraction of the time to the
19 consideration of any public object,
20 most of it to the prosecution of
21 their own objects. Meanwhile, each
22 fancies that no harm will come of
23 his neglect, that it is the
24 business of somebody else to look
25 after this or that for him; and so,

1 by the same notion being
2 entertained by all separately, the
3 common cause imperceptibly decays."

4 That's Thucydides, 460-400 B.C., commenting
5 on the decay of democracy in Rome during the
6 Peloponnesian War.

7 Thank you. That ends my comments. I
8 appreciate the First Amendment.

9 GENERAL HABIGER: Thank you, Mr. Garcia.
10 Our next speaker is Kim Yates.

11

12 KIM YATES

13 MR. YATES: Good morning. I'm Kim Yates. I
14 have come and gone a couple of times between this
15 Laboratory and the outside world. I know it still
16 exists. I've got about 13 years here; all
17 together, 14 years, computer scientist and
18 mathematician.

19 The previous speakers have all been really
20 eloquent and well-prepared, but I'm just going to
21 try to wing it here. We'll see how it goes.

22 I think this what you've proposed, what the
23 government proposes, is really a poor idea. I
24 think it's going to be ineffective and it's going
25 to be injurious -- injurious not just to the

1 employees here, but to the Laboratory and to the
2 Department. I think this is a lose/lose situation
3 here.

4 What the government plans to do is to take
5 literally thousands of people -- these are people
6 who are not accused or suspected of any criminal
7 wrongdoing, no kind of misbehavior -- to take those
8 people one by one and put them in a little room,
9 separated from their family, from their friends,
10 from their co-workers, from any kind of independent
11 representative -- no legal counsel or anything like
12 that -- we're just supposed to trust them that
13 they've got our interests at heart.

14 Well, excuse me. I don't think so.

15 This is not only contrary to usual notions
16 that most of us have about American justice and
17 fair play, but the ultimate irony here, too, is
18 that, you know, we are scientists; we are
19 engineers; we are mathematicians. We built our
20 careers on logical proof and hard, objective
21 evidence.

22 Now we find that our careers are basically
23 up to, well, not those standards. I think we all
24 know that if we proposed any kind of scientific
25 experiment based on the methodology of the

1 polygraph, we would not be here; we would have no
2 money. You know, this is just absurd.

3 Okay. We've also been told that if we go
4 into these interrogations with a bad attitude --
5 exact words -- that things will not go well for us,
6 that the interrogations could go on for hours,
7 days. Who knows? I don't see a time limit to
8 this.

9 So, to sum up, I just hope that my
10 colleagues will not aide and abet this witch hunt,
11 period.

12 GENERAL HABIGER: Thank you, sir.

13 Our next speaker is Mark Mallah.

14

15 MARK MALLAH

16 MR. MALLAH: Thank you.

17 My name is Mark Mallah. I'm representing
18 myself. And unlike the previous speakers, I am not
19 employed here.

20 I was special agent of the FBI from 1987 to
21 1996. And for the majority of that time, I worked
22 in Foreign Counterintelligence, so I am a very
23 strong believer in good internal security.

24 And I'm here today to say that the polygraph
25 has been tried, has been in use, and has been a

1 total failure.

2 I feel particularly strong about this
3 because in 1995, I took a routine
4 counterintelligence scale polygraph, exactly like
5 the ones contemplated here today. And solely
6 because of that polygraph, I was falsely accused of
7 unauthorized contacts with foreign intelligence
8 service.

9 These polygraph charts and nothing more
10 launched a major investigation of me which lasted
11 about two years or almost two years.

12 This included 24-hour surveillance,
13 including an airplane buzzing above my house every
14 morning; my home was searched, which I consented to
15 in an effort to demonstrate my innocence; the FBI
16 conducted extensive interviews of my family
17 members, my wife, and many, many friends, some of
18 whom I hadn't seen in 10 and 12 years.

19 These interviews were highly insinuating,
20 and there were far, far too many details for me to
21 elaborate upon here.

22 It took me nearly two years -- it took two
23 years to finally clear my name. And throughout
24 those two years, the words of one of the foremost
25 proponents of the polygraph kept ringing in my

1 ears.

2 In 1986, he wrote -- and this is David
3 Raskin -- he wrote,

4 "A more extreme problem of the same
5 type is inherent in large-scale
6 counterintelligence polygraph
7 screening programs. Even if one
8 accepts a liberal estimate that one
9 percent of the tested individuals
10 are actually spies, 89 to 96
11 percent of those found deceptive on
12 the polygraph test would be wrongly
13 suspected."

14 The government would have to spend millions
15 of dollars for field investigations to uncover the
16 mistakes, or, as I like to say, to cover the
17 mistakes.

18 I would respectfully suggest to you that
19 before investing so much in the polygraph, you
20 demand and insist upon empirical proof of its
21 success.

22 And before I walked in here today, I was not
23 aware of one single case where a spy has ever been
24 caught by the polygraph. And Dr. Barland mentioned
25 a couple cases to the contrary, and I would urge

1 you to pay very close attention to that because in
2 my experience, polygraph examiners inflate their
3 own figures, mischaracterize what is an admission,
4 all for the purpose of serving their own industry.

5 Now, I'm not saying they're lying. But I am
6 saying that they have a strong incentive to shade
7 all the evidence in their favor.

8 And also be aware that to a polygraph
9 examiner/interrogator, a confession is like a
10 trophy. So the slightest sliver of anything --
11 anything that can be construed or misconstrued as
12 damaging -- that examiner has a strong incentive to
13 say, "I got an admission; this person was
14 deceptive; here's the proof."

15 If I were the head of a hostile intelligence
16 service, right about now I'd be throwing a party at
17 the prospect of the Department of Energy employing
18 large-scale polygraphs because I would know that
19 with some training, the polygraph is very easy to
20 beat.

21 So my spy, I'd put right here. And he would
22 pass the polygraph because all the tests indicate
23 such, and you would have a false sense of security
24 about that. You would think that guy is completely
25 clean.

1 I would also note that you would be
2 completely diverted in pursuing the wrong people.
3 So you would be completely wasting your energy.
4 All the while the polygraph experts are insisting
5 that those people are deceptive.

6 And to top it off, the polygraph has zero
7 accountability. If the examiner says someone is
8 deceptive, you launch an investigation and you
9 can't find anything, the polygraph people will tell
10 you, "You just haven't found it; you've got to keep
11 looking."

12 They're not going to admit that they're
13 wrong, nor would they have any reason to think
14 they're wrong. They don't even know that they're
15 wrong if they are wrong.

16 And for those people falsely accused, those
17 89 to 96 percent, according to Dr. Raskin, there is
18 no way for them to prove a negative.

19 If we had a device that could deliver on the
20 advertised promises of polygraph, I would be all
21 for it. But unfortunately, in 1999 we do not have
22 that luxury.

23 If you're truly interested in catching
24 spies, I suggest you go back and look on the record
25 of how every spy in this country has ever been

1 caught. Now, I haven't studied it myself, but to
2 my knowledge, it's been a combination of defectors,
3 sources and family members and other investigative
4 channels. My suggestion would be to study the
5 successful techniques and build on those.

6 Now, I'm not saying we have to settle for
7 that and we have to freeze ourselves in the past.
8 What I am saying is that using a polygraph machine
9 to help detect national security is nothing more
10 than a delusion which inevitably will result in the
11 same mistakes that were made in my own case and
12 ultimately threaten national security far more than
13 it will protect it.

14 Thank you.

15 GENERAL HABIGER: Thank you very much,
16 Mr. Mallah.

17 I'd like to call to the podium Ms. Jane
18 Dignon.

19

20 JANE DIGNON

21 MS. DIGNON: Good morning.

22 GENERAL HABIGER: Good morning.

23 MS. DIGNON: My name is Jane Dignon, and
24 before I go on, I'd like to point out a misspelling
25 of my name. The correct spelling is D-i-g-n-o-n.

1 GENERAL HABIGER: Thank you, ma'am.

2 MS. DIGNON: I have been an employee at the
3 Laboratory for nearly ten years, and I came here
4 because I was looking forward to an academic yet
5 promising career working for the U.S. government.

6 I have a couple of comments I'd like to
7 make. First, I'd like to say that I would express
8 my support for the SPSE statements that were given
9 by Bill O'Connell earlier.

10 Next, I have a book I'd like to quote two
11 passages from. The title of the book is A Tremor
12 in the Blood, and it's written by Dr. David Lykken.
13 David Lykken is a retired professor of psychology
14 at the University of Minnesota. He's a fellow of
15 the American Association for the Advancement of
16 Science and the American Psychological Association.
17 He's testified on lie detector evidence in many
18 State, Federal, and Military courts, a committee of
19 the British throne, legislative committees of
20 several states, as well as three committees of the
21 U.S. House and Senate.

22 In 1990 he received the American
23 Psychological Association award for a distinguished
24 contribution to psychology.

25 The first statement, and I quote,

1 "The theory and method of
2 polygraphic lie detection are not
3 rocket science. Indeed, they are
4 not science at all. Most of the
5 these techniques were developed by
6 the police or lawyers."

7 Second quote,

8 "We have no definitive scientific
9 evidence on which to base precise
10 estimates of the lie detector's
11 validity. But we have enough
12 evidence to say that an innocent
13 person has nearly a 50/50 chance of
14 failing the lie detector test."

15 When your own expert, Dr. Barland, can't
16 give a conclusive estimate of the accuracy, my
17 concern is that my innocence, my professional
18 career, and my family's livelihood, including my
19 five-year-old daughter, may be dependent on an
20 examination which has no better odds than, say, one
21 in ten -- and some say those odds are actually
22 worse than that.

23 It's a very, very difficult position you're
24 putting these people in that you trust with nuclear
25 secrets and the country's security. This is

1 intimidation in its highest form.

2 GENERAL HABIGER: Thank you for your
3 comments.

4 I'd like to call next Mr. Lee Busby.

5
6 LEE BUSBY

7 MR. BUSBY: Good morning.

8 GENERAL HABIGER: Good morning, sir.

9 MR. BUSBY: My name is Lee Busby, and I'm
10 representing myself.

11 I'm quite unhappy to be here, but I do
12 appreciate the opportunity to address the panel,
13 and I do appreciate the time and effort that each
14 of you is putting into this process.

15 I've been a computer scientist at LLNL since
16 1987 and was employed at UC Berkeley for about
17 three years prior to that. I'm strongly opposed to
18 the imposition of polygraph testing at Livermore
19 and the other laboratories.

20 The potential for unfair destruction or
21 foreshortening of innocent persons' careers should
22 be considered an unacceptable risk. I believe
23 polygraph testing will instill an atmosphere of
24 intimidation and mistrust that would poison
25 relationships inside the laboratories and cause

1 irreparable harm to these institutions. The scope,
2 quality, and value of scientific research will all
3 be detrimentally affected.

4 I believe that human beings share a
5 propensity toward cooperation with our captors. We
6 tend to internalize the customs of our social
7 organizations so that it becomes very difficult to
8 break a rule even in a context where this is
9 obviously harmless and even in the absence of
10 external enforcement.

11 Polygraph testing is by its nature a
12 powerful force for rule internalization. I suspect
13 this is well known and valued among managers.
14 However, good science depends upon people who have
15 the ability and the willingness to set aside their
16 preconceptions, go beyond accepted limits, and,
17 yes, sometimes even to break the rules, certainly
18 in a metaphorical if not a literal sense.

19 I'm not suggesting that we have to give away
20 our secrets to do good science here or that good
21 scientists are in any way more likely to become
22 spies. My point is that polygraph testing will
23 encourage, reward, and select for a culture with
24 more boundaries and more internal limitations on
25 right thinking and that this will be devastating to

1 our scientific mission.

2 There seems to be little awareness for the
3 changes technology may bring to the field of
4 polygraph testing. Those who favor testing must
5 agree that cheaper and less-intrusive testing would
6 certainly be even better.

7 Soon it will be possible to put the
8 machinery of a polygraph into a wristwatch,
9 allowing us to carry out round-the-clock, remote
10 monitoring looking for significant responses. We
11 will have software capable of understanding context
12 and content good enough even for espionage, as
13 Mr. David Renzelman put it.

14 If this seems a bit extreme to you, perhaps
15 we'd only ask our employees to wear their polygraph
16 during foreign travel or while giving a talk at a
17 conference where something might slip out. Surely
18 our secrets are worth such a small inconvenience.

19 I have read these rules, and I see nothing
20 that would forbid this outcome in the wrong hands.
21 Where will we draw the line?

22 It is very hard for me to articulate the
23 nature and the depth of my feelings about this
24 proposal. On the most basic level, I feel
25 threatened, intimidated, violated, and I feel

1 dishonored.

2 I have always imagined that I have two roles
3 here at the Laboratory. My primary goal is to
4 produce good science. I strive to be an ornament
5 to my profession in every activity and every
6 relationship here and outside the fence. Second,
7 but no less important, is my role to protect those
8 materials and ideas that have been designated
9 "national secrets."

10 I am greatly honored by the trust our nation
11 places in me. That honor and the mutual trust it
12 is founded upon is central to my job here. This
13 proposal changes the most fundamental aspects of my
14 job. My loyalty is no longer a matter of personal
15 honor; it is a matter of subtle intimidation and
16 coercion towards the corporate definition of that
17 word.

18 I believe in the existence of the heart of
19 hearts and that the most important struggles in a
20 person's life are essentially private. I believe
21 that the loyalties I feel are ultimately mine alone
22 and that their precise contours are not at so long
23 as my actions meet the standards of my family, my
24 community, my workplace, and my country.

25 This proposal for lie detector testing is

1 fatally offensive to the honor I feel for the work
2 I do here. The DOE has taken me to a small room
3 and bared its fangs. I am not surprised to observe
4 how long and sharp they are, but I am gravely
5 distressed and irrevocably disappointed and
6 disillusioned.

7 GENERAL HABIGER: Mr. Busby, thank you very
8 much for your most sincere input.

9 Our next speaker is Mr. Tom Harper.
10 Mr. Harper?

11 Let the record reflect that Mr. Harper is
12 not here.

13 Do you need a break? Okay.

14 Ladies and gentlemen, I need a break, so
15 we'll reconvene in ten minutes.

16 Thank you very much.

17 (Whereupon, a recess was taken.)

18 GENERAL HABIGER: Okay. Ladies and
19 gentlemen, let's go ahead and reconvene if we
20 could, please.

21 Our next scheduled speaker is Marylia
22 Kelley. Marylia Kelley. Ms. Kelley I'll give you
23 one more opportunity. I'll let you come back later
24 if you arrive.

25 Okay. Our unscheduled speakers. I'd like

1 to call to the podium Joel Wong. Mr. Wong?

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JOEL WONG

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MR. WONG: Good morning. My name is Joel Wong. I've been here at the Lab for about 14 years, and I'm speaking on behalf of myself.

My concerns are that -- first of all, I'm concerned about the subjectivity -- subjective interpretation of the polygraph test results, and that it might put unnecessary burden on Asian-Americans and, in particular, Chinese-Americans. Let me explain.

Mr. Paul D. Moore, who was the FBI's chief Chinese intelligence analyst from 1978 to 1998, has a theory, and his theory goes like this: China has managed to slip hundreds of sleepers or agents into our defense industry targeting Chinese-American. All these Chinese agents -- all they have to do is to simply convince the Chinese-Americans who are second or third generation into this country that are in the security or have job security clearance, that all they have to do is to convince them to perceive that they are more Chinese than they are Americans. And they have the duty, a duty somehow, some day, to help their ancestral land.

1 The Chinese agents often pay their target
2 for the intelligence they produce, thus, they don't
3 leave any trail that can be easily followed. While
4 government and other country intelligence
5 specialists constantly screen their employees for
6 personal situation that might give rise to hostile
7 intelligent exploitation, nobody consider ethnic
8 background to be reliable predictor of an
9 employee's possible covert intelligence activities.

10 Because of this, the above theory, some FBI
11 agents concluded they have every right and moral
12 duty to suspect every Chinese-American working in
13 science and high-technology area.

14 If this theory was true, then we can also
15 easily come to the conclusion that
16 Italian-Americans are more prone to be against us,
17 that Irish-Americans are more prone to be
18 terrorists, and that Jewish-Americans are more
19 prone to spy for money. So this is my first
20 concern.

21 My second concern has to do with Asian
22 cultural traits. More and more Asian-Americans are
23 valuing their own cultural heritage and traits and
24 are holding on to them.

25 My concern is that the polygraph test

1 administrators are unaware of their own cultural
2 bias. This may lead to inaccuracy in their
3 interpretation of these tests.

4 Thank you very much.

5 GENERAL HABIGER: Thank you very much, sir.

6 Our next unscheduled speaker, Mr. Richard
7 Sharp.

8

9

RICHARD SHARP

10 MR. SHARP: My name is Richard Sharp. I'm
11 speaking for myself.

12 Normally I don't like to get involved in
13 things that are more or less political, but I felt
14 I have to go on the record for this issue. Much of
15 what I had to say I think has already been brought
16 up by earlier speakers, so I will just go through
17 the points very quickly.

18 First of all, there's no such thing as a lie
19 detector test. There's no theory that connects
20 lies and physical responses. There are no adequate
21 studies to support any conclusions of high
22 accuracy.

23 Lie detector tests are in the same general
24 scheme as cold fusion, astrology, alien abductors.
25 We should not associate DOE's scientific integrity

1 with this sort of nonsense. They've been shown to
2 be fallible.

3 We all know that scam artists can lie with
4 impunity and steal people's savings and do all
5 sorts of things like this without any trouble
6 whatsoever.

7 It is ineffective to screen 5,000 people
8 with something that might be 10 or 20 percent
9 accurate, and, thus, have 500 or 1,000 errors in it
10 to find two or three spies.

11 They are not -- lie detector tests are not
12 accepted by the courts. There's a lack of due
13 process in this thing. There's no sense of
14 probable cause for such an intrusive process, no
15 sense of what America stands for in doing this sort
16 of thing.

17 This process could kill recruiting and
18 retention of people such as computer scientists and
19 other areas of high demand. That will hurt the
20 labs very badly, will hurt national security.

21 This is intimidation. Why not the rack or
22 something else or what Israel just had to admit to?

23 This is not something I agreed on when I
24 started in this business 30 years ago. If I take
25 this test, it will be under duress. Unfortunately,

1 I don't have the option to quit. If I were
2 probably three or four years older, I would take
3 this badge and throw it in your face and walk out
4 the door. This is just an insult on me personally.
5 This is the way I feel about this.

6 This very eloquent talk was brought just a
7 few minutes ago about honor and how to treat people
8 and trust people.

9 Well, anyway, I think I said what I need to
10 say.

11 Thank you.

12 GENERAL HABIGER: Thank you very much, sir.

13 The final unscheduled speaker we have at
14 this particular point -- but we're going to stay
15 here through the appointed time -- is Mr. Stephen
16 Wofford. Mr. Wofford?

17

18 STEPHEN WOFFORD

19 MR. WOFFORD: Good morning.

20 GENERAL HABIGER: Good morning, sir.

21 MR. WOFFORD: My name is Stephen Wofford.
22 I'm speaking for myself today.

23 I am an assistant archivist in the
24 Laboratory archives here at Lawrence Livermore.

25 I've been at the Laboratory for about 16 and a half

1 years now. Excuse me.

2 The prospect of polygraph testing has raised
3 everyone's awareness of the issue of trust. In my
4 personal experience at this Laboratory, it has been
5 of paramount importance to every individual I have
6 dealt with to protect classified information,
7 especially with respect to nuclear weapons.

8 When I applied for the job here at the
9 Laboratory, I underwent an extensive background
10 investigation. In addition to that, I was asked,
11 and voluntarily agreed, to sign a waiver
12 significantly reducing any right to privacy I may
13 have enjoyed under the law. I don't have a problem
14 with that.

15 I have a problem with the proposed rule on
16 polygraph testing. It is central to my major
17 concern here today, and that concern is national
18 security.

19 When I talk about national security in
20 relation to the DOE weapons laboratories, I am
21 talking about the continuing ability of those
22 laboratories to assure the ongoing safety and
23 reliability of the U.S. nuclear weapons stockpile.

24 I don't want a graduate of Sierra Academy
25 armed with a crescent wrench and a ball peen hammer

1 doing that work. I want the most highly-qualified,
2 the best available people to do those critical
3 tests.

4 I greatly fear that, given human nature, the
5 prospect of undergoing polygraph examinations is
6 going to significantly and adversely impact the
7 ability of the weapons laboratories to retain and
8 to attract those highly-qualified people.

9 I'm deeply afraid that the Department of
10 Energy is preparing to shoot itself in its
11 collective foot here. No one that I know -- not
12 myself, probably no one in the room, probably none
13 of you -- enjoys working in an environment where
14 the explicit message is "You cannot be trusted."

15 Thank you for your time.

16 GENERAL HABIGER: Thank you, sir.

17 Let me again ask if Mr. Tom Harper is in the
18 audience and would like to speak?

19 Marylia Kelly?

20 Ladies and gentlemen, that concludes our
21 scheduled speakers and our unscheduled speakers up
22 to this point. The panel will remain in session as
23 advertised until 1:00 o'clock for any other
24 speakers, and then we'll reconvene later this
25 afternoon.

1 (Whereupon, a recess was taken.)

2 GENERAL HABIGER: The panel has reconvened,
3 and we have another unscheduled speaker.

4 Mr. John Hobson, we appreciate you coming
5 by, sir.

6

7 JOHN HOBSON

8 MR. HOBSON: Thank you.

9 I'm here to express opposition to the
10 proposed lie detector test. In brief, I support
11 the SPSE's statement which has been read into the
12 record earlier this morning.

13 My primary concern is that it is inaccurate.
14 And one need only pronounce such tests are
15 inadmissible in courts of law, and, therefore,
16 cannot be considered an aid to justice or due
17 process.

18 I'm also concerned that this proposal is
19 politically motivated. The impetus behind this is
20 the supposed spy at Los Alamos, but the evidence is
21 so scant that supposedly no prosecution is likely.
22 Expert scientists such as Edward Teller, if the
23 newspaper reports I've read are accurate, doubt
24 whether espionage took place.

25 It is clear elements in the Congress want to

1 embarrass administration, including DOE, and DOE
2 has then become a pawn in this game. And now you
3 want to continue this game by imposing ineffective
4 testing. To me, this is something out of Nazi
5 Germany or Communist Russia.

6 And as a life-long, trained scientist, I
7 find lie detector tests as rational as tea leaves,
8 Ouija boards, horoscopes and tarot cards. And just
9 as I don't read my horoscope everyday, I have no
10 intention of submitting to such a test. And if
11 that ends my 27-year career at the Lab as a
12 computer scientist, so be it. And shame on you for
13 disgracing this fine Laboratory in our great
14 country.

15 Thank you.

16 GENERAL HABIGER: Mr. Hobson, thank you very
17 much, sir.

18 (Whereupon, a recess was taken.)

19 GENERAL HABIGER: Well, we have an
20 unscheduled speaker: Mr. Ed Farley. Is that
21 right, sir?

22 MR. FARLEY: Correct.

23 GENERAL HABIGER: Thank you very much.

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EDWARD FARLEY

MR. FARLEY: I'm representing myself.

GENERAL HABIGER: Certainly.

MR. FARLEY: And having not heard the other speakers, I may be covering old ground, but I'd like to ensure that it is covered.

I've been at Lawrence Livermore for 40 years now, both as a full-time employee and as a retiree part-time. And I consider it an affront to me to have to be subjected to polygraph testing.

I've seen underground tests; I've seen above-ground tests; I've seen just about everything. I am aware that known spies have been caught in lies with polygraph testing. I'm aware that people who consider themselves to be spies to have been caught with polygraph testing. I'm aware that polygraph is considered to be a deterrent to spying; however, I do not know how many people have actually been deterred as a result of polygraph testing.

In summary, I believe that the issue of polygraph testing at the DOE labs is basically the result of the current political climate. I resent the manipulation which I believe happens at the initial interview to disarm and prepare the

1 interviewees, and I believe that polygraph testing
2 will increase the employee dissatisfaction not only
3 with the DOE, of course, but also Lawrence
4 Livermore and probably the other laboratories.

5 Thank you.

6 GENERAL HABIGER: Thank you, sir. I
7 appreciate you coming by.

8 (Whereupon, a recess was taken.)

9 GENERAL HABIGER: Mr. Chapline, thank you
10 very much for coming, sir. You are considered an
11 unscheduled speaker, but we're happy to have you
12 here, sir.

13

14 GEORGE CHAPLINE

15 MR. CHAPLINE: Well, I came over, in fact,
16 because someone told me that no one was here; I
17 wouldn't have to wait.

18 I've worked at the Lab since 1969. I'm a
19 theoretical physicist by training and have worked
20 at various programs in the Lab over the years. I
21 might mention that I'm a winner of the Department
22 of Energy Lawrence Prize for Contributions to
23 National Security.

24 As I presume with most of the speakers, I am
25 very much disturbed by the polygraph testing

1 requirement. I feel that -- strongly feel that in
2 the long run this will be very damaging to national
3 security.

4 I think that by far the most important
5 contribution to national security that can be made
6 by places like Lawrence Livermore National
7 Laboratory is having very bright people work here.
8 And I think this will be a strong deterrent to
9 having very bright people here.

10 I, incidentally, spoke with a friend of mine
11 who used to work here and now works at the Naval
12 Air Warfare Center at China Lake, and he told me
13 the whole thing was very scary to him, and that,
14 you know, it was a necessary part of being employed
15 there, but that it was certainly nothing he looked
16 forward to.

17 And so I think that, you know, whatever
18 gains -- and it's not clear to me that there are
19 any significant gains to this procedure in terms of
20 increasing national security -- I think you'll
21 always -- national security will always be
22 dependent mainly on the integrity of the people who
23 work in classified programs.

24 And counter to that I think is creating an
25 atmosphere of no fear, general -- you know, another

1 factor as to why, you know, a bright person just
2 getting out of graduate school in the physical
3 sciences, for example, might not want to come and
4 work at a place like this I think is a far
5 overriding factor in terms of the long-range
6 security of the United States.

7 I think that that should really -- you know,
8 a lot of weight should have been given -- thought
9 should have been given to that aspect of it. I
10 mean, I'm sure that some thought was given to it,
11 but I think that -- that particularly, you know, in
12 a place -- I mean, I appreciate that since the end
13 of the Cold War, you know, the need for
14 cutting-edge research has probably decreased, but I
15 said in the long run, I think that you will always
16 need very bright people working on problems of
17 national defense.

18 GENERAL HABIGER: Mr. Chapline, thank you
19 very much, sir.

20 MR. CHAPLINE: Okay.

21 GENERAL HABIGER: I appreciate you coming by
22 and letting us hear your views.

23 THE WITNESS: Thank you.

24 GENERAL HABIGER: Thank you.

25 (Whereupon, a recess was taken.)

1 GENERAL HABIGER: Well, ladies and
2 gentlemen, let the record reflect the time is 1300
3 Pacific Daylight Time. The panel will be released
4 until 1500 hours, two hours from now.

5 (Whereupon, the hearing adjourned at
6 1:00 p.m.)

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STATE OF CALIFORNIA)
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I, LETICIA A. RALLS, a Certified Shorthand Reporter in and for the State of California, do hereby certify:

That said hearing was reported by me at said time and place, and was taken down in shorthand by me to the best of my ability, and was thereafter transcribed into typewriting, and that the foregoing transcript constitutes a full, true and correct report of said hearing which took place.

I further certify that I am not of counsel nor attorney for either or any of the parties hereto, nor in any way interested in the outcome of the said hearing.

IN WITNESS WHEREOF, I have hereunder subscribed by hand this 21st day of September 1999.

LETICIA A. RALLS, RPR
CSR NO. 10070

