

September 25, 1995

MEMORANDUM TO: William H. Bateman, Director  
Project Directorate IV-2  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

FROM: James C. Stone, Senior Project Manager  
Project Directorate IV-2  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

SUBJECT: FORTHCOMING MEETING WITH PACIFIC GAS & ELECTRIC COMPANY -  
DIABLO CANYON NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2

DATE & TIME: October 5, 1995  
8:30 a.m. - 11:30 a.m.

LOCATION: One White Flint North  
11555 Rockville Pike  
Rockville, Maryland 20852  
Room 0-10B11

PURPOSE: To discuss the licensee's plans for extension of the Diablo  
Canyon fuel cycle. (TAC Nos. M93629 and M93630) A meeting  
agenda is enclosed.

PARTICIPANTS\*: NRC Pacific Gas & Electric Westinghouse  
J. Stone S. Kamdar J. Bass  
K. Thomas A. Nicholson D. Liparulo  
C. Jackson L. Bates  
T. Dunning V. Backman  
S. Mazumdar R. Johnson  
M. Argus

Docket Nos. 50-275  
and 50-323

Attachment: Agenda

cc w/att: See next page

CONTACT: James C. Stone  
415-3063

\*Meetings between NRC technical staff and applicants or licensees are open  
for interested members of the public, petitioners, intervenors, or other  
parties to attend as observers pursuant to "Commission Policy Statement on  
Staff Meetings Open to the Public" 59 Federal Register 48340, 9/20/94.

DOCUMENT NAME: DCOCT5.MTR

OFC	PDIV-2/LA	PDIV-2/PM	PDIV-2/PM
NAME	EPeyton	KThomas:ye	JStone
DATE	9/22/95	9/22/95	9/25/95

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Pacific Gas & Electric Company  
Diablo Canyon Nuclear Power Plant

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**MEETING AGENDA  
PACIFIC GAS & ELECTRIC - DIABLO CANYON UNITS 1 & 2  
EXTENSION TO 24 MONTH FUEL CYCLE**

**October 5, 1995**

- I. Overview of Extended Cycle Plans (30 minutes)
  - Feasibility Studies
    - Fuel Performance
    - Accident Analysis
    - Operations and Maintenance
    - Technical Specification Changes
    - Technical Issues
  - Short-Term/Long-Term Plans
  - Surveillance Extension Program
  - Status of Activities
- II. Details of First License Amendment Request (LAR) - December 1995 (60 minutes)
  - Scope
  - Specific Technical Specification Changes (Surveillance Interval Increases)
  - Evaluation Methods
- III. Overview of Later LARs - April 1996 thru January 1997 (30 minutes)
  - Expected Content
  - Submittal Plans/Schedules



September 25, 1995

MEMORANDUM TO: William H. Bateman, Director  
Project Directorate IV-2  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

FROM: James C. Stone, Senior Project Manager  
Project Directorate IV-2  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

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DATE & TIME: October 5, 1995  
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LOCATION: One White Flint North  
11555 Rockville Pike  
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PURPOSE: To discuss the licensee's plans for extension of the Diablo  
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Docket Nos. 50-275  
and 50-323

Attachment: Agenda

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CONTACT: James C. Stone  
415-3063

\*Meetings between NRC technical staff and applicants or licensees are open for interested members of the public, petitioners, intervenors, or other parties to attend as observers pursuant to "Commission Policy Statement on Staff Meetings Open to the Public" 59 Federal Register 48340, 9/20/94.

DOCUMENT NAME: DCOCT5.MTR

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September 26, 1995

MEMORANDUM TO: Rules Review and Directives Branch  
Division of Freedom of Information and Publications Services  
Office of Administration

FROM: Office of Nuclear Reactor Regulation

SUBJECT: PACIFIC GAS AND ELECTRIC COMPANY  
(Diablo Canyon Nuclear Power Plant, Units 1 and 2)

One signed original of the *Federal Register* Notice identified below is attached for your transmittal to the Office of the Federal Register for publication. Additional conformed copies ( 5 ) of the Notice are enclosed for your use.

- ☐ Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- ☐ Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for submission of Views on Antitrust matters.
- ☐ Notice of Consideration of Issuance of Amendment to Facility Operating License. (Call with 30-day insert date).
- ☐ Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- ☐ Notice of Availability of NRC Draft/Final Environmental Statement.
- ☐ Notice of Limited Work Authorization.
- ☐ Notice of Availability of Safety Evaluation Report.
- ☐ Notice of Issuance of Construction Permit(s).
- ☐ Notice of Issuance of Facility Operating License(s) or Amendment(s).
- ☐ Order.
- ☒ Exemption.
- ☐ Notice of Granting Exemption.
- ☐ Environmental Assessment.
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- ☐ Receipt of Petition for Director's Decision Under 10 CFR 2.206.
- ☐ Issuance of Final Director's Decision Under 10 CFR 2.206.
- ☐ Other: \_\_\_\_\_

DOCKET NO. 50-275  
Attachment(s): 50-323  
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Memo 2



UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

In the Matter of	)	
	)	
PACIFIC GAS AND ELECTRIC COMPANY	)	Docket Nos. 50-275
	)	and 50-323
(Diablo Canyon Nuclear Power Plant	)	
Units 1 and 2)	)	

EXEMPTION

I.

On November 2, 1984, the Commission issued Facility Operating License No. DPR-80 and on August 26, 1985, the Commission issued Facility Operating License No. DPR-82 to Pacific Gas and Electric Company (the licensee) for the Diablo Canyon Nuclear Power Plant, Units 1 and 2 (DCPP), respectively. The license provides, among other things, that the licensee is subject to all rules, regulations, and orders of the Commission now or hereafter in effect.

II.

It is stated in 10 CFR 73.55, "Requirements for physical protection of licensed activities in nuclear power reactors against radiological sabotage," paragraph (a), that "The licensee shall establish and maintain an onsite physical protection system and security organization which will have as its objective to provide high assurance that activities involving special nuclear material are not inimical to the common defense and security and do not constitute an unreasonable risk to the public health and safety."

It is specified in 10 CFR 73.55(d), "Access Requirements," paragraph (1), that "The licensee shall control all points of personnel and vehicle access into a protected area." It is specified in 10 CFR 73.55(d)(5) that "A



numbered picture badge identification system shall be used for all individuals who are authorized access to protected areas without escort...." It also states that an individual not employed by the licensee (i.e., contractors) may be authorized access to protected areas without escort provided the individual "receives a picture badge upon entrance into the protected area which must be returned upon exit from the protected area...."

The licensee proposed to implement an alternative unescorted access control system which would eliminate the need to issue and retrieve badges at each entrance/exit location and would allow all individuals with unescorted access to keep their badges with them when departing the site.

An exemption from certain requirements of 10 CFR 73.55(d)(5) is required to allow contractors who have unescorted access to take their badges offsite instead of returning them when exiting the site. By letter dated May 5, 1995, and supplements dated July 28, 1995, September 14, 1995 and September 19, 1995, the licensee requested an exemption from certain requirements of 10 CFR 73.55(d)(5) for this purpose.

### III.

Pursuant to 10 CFR 73.5, "Specific exemptions," the Commission may, upon application of any interested person or upon its own initiative, grant such exemptions in this part as it determines are authorized by law and will not endanger life or property or the common defense and security, and are otherwise in the public interest. Pursuant to 10 CFR 73.55, the Commission may authorize a licensee to provide measures for protection against radiological sabotage provided the licensee demonstrates that the measures have "the same high assurance objective" and meet "the general performance requirements" of the regulation, and "the overall level of system performance





provides protection against radiological sabotage equivalent" to that which would be provided by the regulation.

At the DCPD site, unescorted access into protected areas is controlled through the use of a photograph on a combination badge and keycard. (Hereafter, these are referred to as badges.) The security officers at the entrance station use the photograph on the badge to visually identify the individual requesting access. The badges for both licensee employees and contractor personnel who have been granted unescorted access are issued upon entrance at the entrance/exit location and are returned upon exit. The badges are stored and are retrievable at the entrance/exit location. In accordance with 10 CFR 73.55(d)(5), contractor individuals are not allowed to take badges offsite. In accordance with the plant's physical security plan, neither licensee employee nor contractors are allowed to take badges offsite.

Under the proposed system, each individual who is authorized for unescorted access into protected areas would have the physical characteristics of their hand (hand geometry) registered with their badge number in the access control system. When an individual enters the badge into the card reader and places the hand on the measuring surface, the system would record the individual's hand image. The unique characteristics of the extracted hand image would be compared with the previously stored template in the access control system to verify authorization for entry. Individuals, including licensee employees and contractors, would be allowed to keep their badges with them when they depart the site and thus eliminate the process to issue, retrieve and store badges at the entrance stations to the plant. Badges do not carry any information other than a unique identification number.



All other access processes, including search function capability, would remain the same. This system would not be used for persons requiring escorted access, i.e., visitors.

Based on a Sandia report entitled, "A Performance Evaluation of Biometric Identification Devices" (SAND91--0276 UC--906 Unlimited Release, printed June 1991), and on the licensee's experience with the current photo-identification system, the licensee stated that the false acceptance rate for the hand geometry system is comparable to that of the current system. The biometric system has been in use for a number of years at several sensitive Department of Energy facilities. The licensee will implement a process for testing the proposed system to ensure continued overall level of performance equivalent to that specified in the regulation. The Physical Security Plan for DCPD will be revised to include implementation and testing of the hand geometry access control system and to allow licensee employees and contractors to take their badges offsite.

The licensee will control all points of personnel access into a protected area under the observation of security personnel through the use of a badge and verification of hand geometry. A numbered picture badge identification system will continue to be used for all individuals who are authorized unescorted access to protected areas. Badges will continue to be displayed by all individuals while inside the protected area.

Since both the badges and hand geometry would be necessary for access into the protected areas, the proposed system would provide for a positive verification process and the potential loss of a badge by an individual, as a result of taking the badge offsite, would not enable an unauthorized entry into protected areas.



For the foregoing reasons, pursuant to 10 CFR 73.55, the NRC staff has determined that the proposed alternative measures for protection against radiological sabotage meet "the same high assurance objective," and "the general performance requirements" of the regulation and that "the overall level of system performance provides protection against radiological sabotage equivalent" to that which would be provided by the regulation.

IV.

Accordingly, the Commission has determined that, pursuant to 10 CFR 73.5, this exemption is authorized by law, will not endanger life or property or the common defense and security, and is otherwise in the public interest. Therefore, the Commission hereby grants Pacific Gas and Electric Company an exemption from those requirements of 10 CFR 73.55(d)(5) relating to the returning of picture badges upon exit from the protected area such that individuals not employed by the licensee, i.e., contractors, who are authorized unescorted access into the protected area, may take their picture badges offsite.

Pursuant to 10 CFR 51.32, the Commission has determined that the granting of this exemption will have no significant impact on the environment (60 FR 49640).

This exemption is effective upon issuance.

Dated at Rockville, Maryland, this 26th day of September 1995.

FOR THE NUCLEAR REGULATORY COMMISSION

*Jack W. Roe*

Jack W. Roe, Director  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation



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September 21, 1995

MEMORANDUM TO: Rules Review and Directives Branch  
Division of Freedom of Information and Publications Services  
Office of Administration

FROM: Office of Nuclear Reactor Regulation

SUBJECT: PACIFIC GAS & ELECTRIC COMPANY  
(Diablo Canyon Nuclear Power Plant, Units 1 and 2)

One signed original of the *Federal Register* Notice identified below is attached for your transmittal to the Office of the Federal Register for publication. Additional conformed copies ( 5 ) of the Notice are enclosed for your use.

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- ☐ Issuance of Final Director's Decision Under 10 CFR 2.206.
- ☐ Other: \_\_\_\_\_

DOCKET NO. 50-275/50-323

Attachment(s): As stated

Contact: E. Peyton  
Telephone: 415-1305

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memo 2





UNITED STATES NUCLEAR REGULATORY COMMISSIONPACIFIC GAS AND ELECTRIC COMPANYDOCKET NOS. 50-272 AND 50-323DIABLO CANYON NUCLEAR POWER PLANT, UNITS 1 AND 2ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of an exemption from certain requirements of its regulations for Facility Operating License Nos. DPR-80 and DPR-82, issued to Pacific Gas and Electric Company (the licensee), for operation of the Diablo Canyon Nuclear Power Plant (DCPP) located in San Luis Obispo County, California.

ENVIRONMENTAL ASSESSMENTIdentification of Proposed Action:

The proposed action would allow implementation of a hand geometry biometric system of site access control such that photograph identification badges can be taken offsite.

The proposed action is in accordance with the licensee's application dated May 5, 1995, and supplemental letters dated July 28, 1995, September 14, 1995 and September 19, 1995, for exemption from certain requirements of 10 CFR 73.55, "Requirements for physical protection of licensed activities in nuclear power plant reactors against radiological sabotage."

The Need for the Proposed Action:

Pursuant to 10 CFR 73.55, paragraph (a), the licensee shall establish and maintain an onsite physical protection system and security organization.

Paragraph (1) of 10 CFR 73.55(d), "Access Requirements," specifies that "licensee shall control all points of personnel and vehicle access into a



protected area...." It is specified in 10 CFR 73.55(d)(5) that "A numbered picture badge identification system shall be used for all individuals who are authorized access to protected areas without escort." It also states that an individual not employed by the licensee (i.e., contractors) may be authorized access to protected areas without escort provided the individual "receives a picture badge upon entrance into the protected area which must be returned upon exit from the protected area..."

Currently, unescorted access into protected areas of the DCPD is controlled through the use of a photograph on a combination badge and keycard. (Hereafter, these are referred to as badges). The security officers at the entrance station use the photograph on the badge to visually identify the individual requesting access. The badges for both licensee employees and contractor personnel who have been granted unescorted access are issued upon entrance at the entrance/exit location and are returned upon exit. The badges are stored and are retrievable at the entrance/exit location. In accordance with 10 CFR 73.55(d)(5), contractor individuals are not allowed to take badges offsite. In accordance with the plant's physical security plans, neither licensee employees nor contractors are allowed to take badges offsite.

The licensee proposes to implement an alternative unescorted access control system which would eliminate the need to issue and retrieve badges at the entrance/exit location and would allow all individuals with unescorted access to keep their badges with them when departing the site.

An exemption from certain requirements of 10 CFR 73.55(d)(5) is required to permit contractors to take their badges offsite instead of returning them when exiting the site.

The Commission has completed its evaluation of the proposed action.



Under the proposed system, each individual who is authorized for unescorted entry into protected areas would have the physical characteristics of their hand (hand geometry) registered with their badge number in the access control system. When an individual enters the badge into the card reader and places the hand on the measuring surface, the system would record the individual's hand image. The unique characteristics of the extracted hand image would be compared with the previously stored template to verify authorization for entry. Individuals, including licensee employees and contractors, would be allowed to keep their badges with them when they depart the site.

Based on a Sandia report entitled "A Performance Evaluation of Biometric Identification Devices" (SAND91--0276 UC--906 Unlimited Release, printed June 1991), and on its experience with the current photo-identification system, the licensee stated that the false acceptance rate of the proposed hand geometry system is comparable to that of the current system. The licensee stated that the use of the badges with the hand geometry system would increase the overall level of access control. Since both the badge and hand geometry would be necessary for access into the protected area, the proposed system would provide for a positive verification process. Potential loss of a badge by an individual, as a result of taking the badge offsite, would not enable an unauthorized entry into protected areas. The licensee will implement a process for testing the proposed system to ensure continued overall level of performance equivalent to that specified in the regulation. The Physical Security Plan for DCPD will be revised to include implementation and testing of the hand geometry access control system and to allow licensee employees and contractors to take their badges offsite.



The access process will continue to be under the observation of security personnel. A numbered picture badge identification system will continue to be used for all individuals who are authorized access to protected areas without escorts. Badges will continue to be displayed by all individuals while inside the protected area.

Environmental Impacts of the Proposed Action:

The change will not increase the probability or consequences of accidents, no changes are being made in the types of any effluent that may be released off site, and there is no significant increase in the allowable individual or cumulative occupational radiation exposure. Accordingly, the Commission concludes that there are no significant radiological environmental impacts associated with the proposed action.

With regard to potential nonradiological impacts, the proposed action involves features located entirely within the restricted area as defined in 10 CFR Part 20. It does not affect nonradiological plant effluents and has no other environmental impact. Accordingly, the Commission concludes that there are no significant nonradiological environmental impacts associated with the proposed action.

Alternatives to the Proposed Action:

Since the Commission has concluded there is no measurable environmental impact associated with the proposed action, any alternatives with equal or greater environmental impact need not be evaluated. The principal alternative to the action would be to deny the request. Such action would not change any current environmental impacts. The environmental impacts of the proposed action and the alternative action are similar.





Alternative Use of Resources:

This action does not involve the use of any resources not previously considered in the "Final Environmental Statement related to the Nuclear Generating Station Diablo Canyon Units 1 and 2", dated May 1973.

Agencies and Persons Consulted:

In accordance with its stated policy, on August 23, 1995, the staff consulted with the California State official, Mr. Steve Hsu of the Department of Health Services, regarding the environmental impact statement for the proposed action. The State official had no comments.

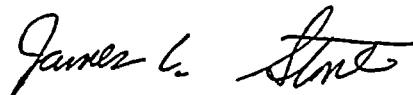
FINDING OF NO SIGNIFICANT IMPACT

Based upon the environmental assessment, the Commission concludes that the proposed action will not have a significant effect on the quality of the human environment. Accordingly, the Commission has determined not to prepare an environmental impact statement for the proposed action.

For further details with respect to the proposed action, see the licensee's letter dated May 5, 1995, and supplements dated July 28, 1995, September 14, 1995 and September 19, 1995, which are available for public inspection at the Commission's Public Document Room, The Gelman Building, 2120 L Street, NW., Washington, DC and at the local public document room located at the California Polytechnic State University, Robert E. Kennedy Library, Government Documents and Maps Department, San Luis Obispo, California 93407.

Dated at Rockville, Maryland, this 20th day of September 1995.

FOR THE NUCLEAR REGULATORY COMMISSION



James C. Stone, Senior Project Manager  
Project Directorate IV-2  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

