



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-4005**

August 27, 2003

Gregory M. Rueger, Senior Vice  
President, Generation and  
Chief Nuclear Officer  
Pacific Gas and Electric Company  
Diablo Canyon Power Plant  
P.O. Box 3  
Avila Beach, California 93424

**SUBJECT: MIDCYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - DIABLO  
CANYON**

Dear Mr. Rueger:

On August 6, 2003, the NRC staff completed its midcycle plant performance assessment of Diablo Canyon. The midcycle review for Diablo Canyon involved the participation of all technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results from January 1 through June 30, 2003. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities.

Plant performance for the most recent quarter was within the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct baseline inspections and Temporary Instruction 2515/150, "Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles," at your facility through September 30, 2004.

Additionally, the staff has identified a substantive crosscutting issue in the area of human performance. The human performance issues contributed to a number of green findings identified in the initiating events, mitigating systems, barrier integrity, and occupational radiation safety cornerstones. The findings included activities performed by operations and maintenance personnel. The majority of the errors involved instances of failing to ensure procedure quality or failing to follow procedures. In the initiating events cornerstone, two of the human performance issues resulted in plant transients. In one instance, maintenance personnel failed to verify previous wiring changes and the function of the circuit prior to lifting leads associated with turbine first stage pressure that resulted in inward control rod motion. In a second instance, a pressurizer power-operated relief valve opened, during power operations, when a surveillance test was performed using an incorrect revision of a procedure.

Other human performance deficiencies involved control of activities performed during the Unit 2 refueling outage. There were findings in the initiating events, mitigating systems, barrier integrity and occupational radiation protection cornerstones. Three of the findings were identified during midloop or reduced inventory operation. Specifically, a shift foreman was not

promptly notified when containment closure could not be attained, the impact on midloop vessel level indication from filling the pressurizer relief tank was not considered, and work was performed around a startup transformer, the single source of offsite power, without notifying the shift foreman. In a separate instance, the reactor coolant system low temperature overpressure protection was inappropriately defeated and an auxiliary feedwater check valve was improperly installed. Lastly, a finding was identified when maintenance personnel did not contact radiation protection personnel prior to working in an overhead area.

The NRC will monitor your efforts to address this issue. Our monitoring efforts will be accomplished during the conduct of the routine baseline inspection program, including a problem identification and resolution inspection in June 2004.

The enclosed inspection plan details the inspections scheduled through September 30, 2004. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last 6 months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 817/860-8147 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

William B. Jones, Chief  
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Dockets: 50-275  
50-323

Licenses: DPR-80  
DPR-82

Enclosure:  
Diablo Canyon Inspection/Activity Plan

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**Diablo Canyon**  
**Inspection / Activity Plan**  
**08/01/2003 - 09/30/2004**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start End	Inspection Type
	<b>SPECIAL - SPECIAL INSPECTION</b>		<b>2</b>		
1, 2	IP 93812	Special Inspection		08/11/2003 08/15/2003	Event Response Insp
	<b>PSBS1-DS - SECURITY BASELINE INSPECTION</b>		<b>1</b>		
1, 2	IP 7113002	Access Control (Search of Personnel, Packages, and Vehicles: Identification and Authorizat		09/23/2003 09/26/2003	Baseline Inspections
1, 2	IP 7113003	Response to Contingency Events (Protective Strategy and Implementation of Protective Str		09/23/2003 09/26/2003	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		09/23/2003 09/26/2003	Baseline Inspections
	<b>ALARA3 - ALARA PLANNING AND CONTROLS</b>		<b>1</b>		
1, 2	IP 7112102	ALARA Planning and Controls		10/06/2003 10/10/2003	Baseline Inspections
	<b>PSB-EP1 - EP PROGRAM BASELINE INSPECTION</b>		<b>1</b>		
1, 2	IP 7111402	Alert and Notification System Testing		11/03/2003 11/07/2003	Baseline Inspections
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		11/03/2003 11/07/2003	Baseline Inspections
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		11/03/2003 11/07/2003	Baseline Inspections
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		11/03/2003 11/07/2003	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		11/03/2003 11/07/2003	Baseline Inspections
	<b>BRE01 - RESIDENT INSPECTION 1ST QUARTER</b>		<b>6</b>		
1, 2	IP 7111104	Equipment Alignment (Quarterly)		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 7111104S	Equipment Alignment		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 7111105Q	Fire Protection		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 7111111Q	Licensed Operator Requalification		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 7111112Q	Maintenance Effectiveness		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 7111113	Maintenance Risk Assessments & Emergent Work Evaluation		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 7111115	Operability Evaluations		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 7111119	Post Maintenance Testing		01/01/2004 03/27/2004	Baseline Inspections
1	IP 7111120	Refueling and Outage Activities		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 7111122	Surveillance Testing		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 7111123	Temporary Plant Modifications		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 7111406	Drill Evaluation		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		01/01/2004 03/27/2004	Baseline Inspections
1, 2	IP 71152	Identification and Resolution of Problems		01/01/2004 03/27/2004	Baseline Inspections
	<b>EMB - INSERVICE INSPECTION</b>		<b>1</b>		
1	IP 7111108P	Inservice Inspection Activities - PWR		02/02/2004 02/06/2004	Baseline Inspections
1	IP 7111108P	Inservice Inspection Activities - PWR		02/09/2004 02/13/2004	Baseline Inspections
	<b>TI 150 - TI 2515/150 - RP VESSEL HEAD INSPECTION</b>		<b>1</b>		
1	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC Bulletin 2002-0		02/07/2004 04/01/2004	Safety Issues

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

**Diablo Canyon**  
**Inspection / Activity Plan**  
**08/01/2003 - 09/30/2004**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start End		Inspection Type
	<b>ACCESSPI - ACRSA/PIV</b>		<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		02/16/2004	02/20/2004	Baseline Inspections
	<b>ALARA1 - ALARA PLANNING AND CONTROLS</b>		<b>1</b>			
1, 2	IP 7112102	ALARA Planning and Controls		05/17/2004	05/21/2004	Baseline Inspections
	<b>2004025 - SAFETY SYS. DESIGN AND PERF. CAPABILITY</b>		<b>4</b>			
1, 2	IP 7111121	Safety System Design and Performance Capability		06/07/2004	06/11/2004	Baseline Inspections
1, 2	IP 7111121	Safety System Design and Performance Capability		06/21/2004	06/25/2004	Baseline Inspections
	<b>2004026 - CHANGES, TESTS. AND EXPERIMENTS</b>		<b>1</b>			
1, 2	IP 7111102	Evaluation of Changes, Tests, or Experiments		06/07/2004	06/11/2004	Baseline Inspections
	<b>PIR - BIENNIAL PIR</b>		<b>4</b>			
1, 2	IP 71152B	Identification and Resolution of Problems		06/28/2004	07/16/2004	Baseline Inspections
	<b>2004034 - EVAL. OF MAINTENANCE EFFECTIVENESS</b>		<b>1</b>			
1, 2	IP 711112B	Maintenance Effectiveness		08/09/2004	08/13/2004	Baseline Inspections