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REC: COLLINS P F

ORG: RAMSAY R D

NRC PACIFIC GAS & ELEC DOCDATE: 07/10/78

DATE RCVD: 08/11/78

DOCTYPE: LETTER

SUBJECT:

NOTARIZED: NO

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LTR 1 ENCL 1

CONFIRMING COMMITMENT MADE BY MR. R. PATTERSON (LICENSEE) TO HAVE COLD LIC

CANIDATES PARTICIPATE IN A SIMULATOR REFRESHER PROGRAM PRIOR TO FUEL LOADING... W/ATT WESTINGHOUSE SEVEN DAY SIMULATOR PROGRAM FOR SUBJECT

FACILITY, STUDENT"S LESSON SCHEDULE.

PLANT NAME: DIABLO CANYON - UNIT 1

DIABLO CANYON - UNIT 2

REVIEWER INITIAL: MLX

DISTRIBUTER INITIAL: DL

NOTES:

J HANCHETT W/1 CY ALL MATERIAL

F HEBDON W/1 CY ALL SAFETY MATERIAL

OPERATOR REQULIFICATION PROGRAM

(DISTRIBUTION CODE MOOS)

FOR ACTION:

BR CHIEF EWR#1 BC \*\* W/5 ENCL

INTERNAL:

REG-FILE !! WILLIAM / ENDL I & E\*\*W/Z ENCL

NRC PDR\*\*W/ENCL

OPERATOR LIC BR\*\*W/2 ENCL

AD FOR QA & O\*\*W/ENCL

**EXTERNAL:** 

LPDRYS

SAN LUIS OBISPO, CA\*\*W/ENCL

TERA\*\*W/ENCL NSIC\*\*W/ENCL

ACRS CAT A\*\*W/16 ENCL

DISTRIBUTION: . LTR 31 SIZE: 1P+4P

'ENCL 31

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7822300.

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REGULATORY DOCKET FILE COPY

### PACIFIC GAS AND ELECTRIC COMPANY

PGSE

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#356/E. ALISAL STREET • P. O. BOX 1171 • SALINAS, CALIFORNIA 93901 • (408) 422-8822

F. C. MARKS

50 - 275 323 1/3/178

July 10, 1978

Mr. Paul F. Collins Chief, Operator Licensing Branch Division of Project Management U.S. Nuclear Regulatory Commission Washington, D.C. 20555

Dear Mr. Collins:

This letter will confirm the commitment made by Mr. R. Patterson of our staff to have our cold license candidates participate in a simulator refresher program prior to fuel loading.

Our candidates will attend a seven day simulator program at the Westinghouse Zion Nuclear Training Center. A copy of the program is attached for your information. We have tentatively scheduled this additional training for September, 1978. We will keep you advised of any changes in this plan.

Based on the above date we would prefer to take the oral reexaminations in late October, 1978 if that is compatible with your schedule.

Should you have any questions or suggestions on our proposed plans please let us know.

Sincerely,

R. D. RAMSAY

Plant Superintendent

Diablo Canyon Power Plant

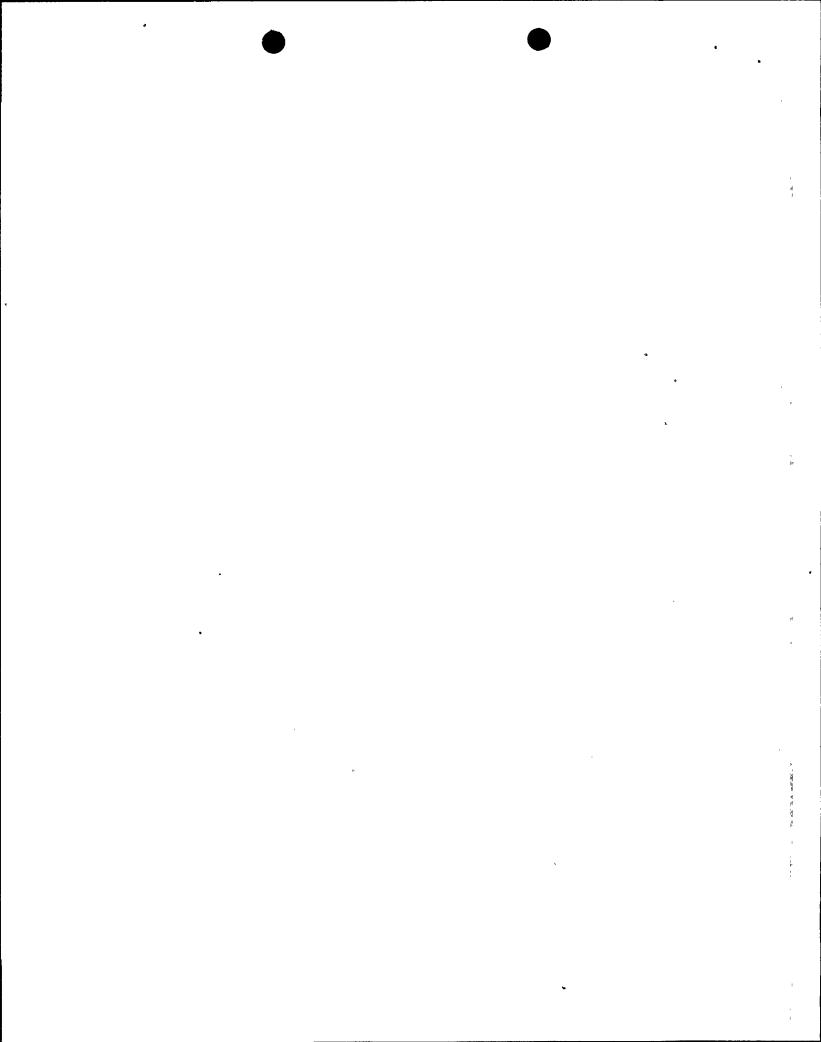
P.O. Box 56

Avila Beach, California 93424

(805) 595-7311

RDR:jr

Attachment



# WESTINGHOUSE NUCLEAR TRAINING CENTER NUCLEAR POWER PLANT TRAINING SIMULATOR SEVEN DAY SIMULATOR PROGRAM FOR DIABLO CANYON OPERATORS

## STUDENT'S LESSON SCHEDULE

DISCUSSION AND OBSERVATION			CONTROL ROOM	
TRAINING DAY	HOURS	SUBJECT	HOURS OPERATIONS	
	1	INTRODUCTION  Building access and control  Evacuation Plan  Program and schedule  Training center tour	Reactor Startup  CVCS operation  Feedwater controls  Turbine-generator operations  Plant load changes	
1		CONTROL ROOM AND SYSTEMS FAMILIARIZATION  Electrical panel  Turbine-generator  Feedwater panel  RCS and CVCS panel	Note: Both groups are together for the firs full day of training.	

Safeguards panel

• • • . :

#### DISCUSSION AND OBSERVATION

TRAINING DAY	HOURS	SUBJECT.
2	3.5	Review previous day's operations
	•	Review Diablo Canyon Procedures for Plant Startup from cold to hot shutdown
		Review Steam Dump Operation
		Review RCS Makeup Control System
•	•	
, ,		•
3	3.5	Review last operations
		Review Diablo Canyon Procedures for Reactor . Startup and secondary plant startup
		· Calculate Shutdown Margin
		Calculate an ECP.
•		
	•	
		•*
	-	

#### CONTROL ROOM

**OPERATIONS** 

HOURS

# PLANT HEATUP 2 Startup from cold shutdown Pressurize RCS for pump startup

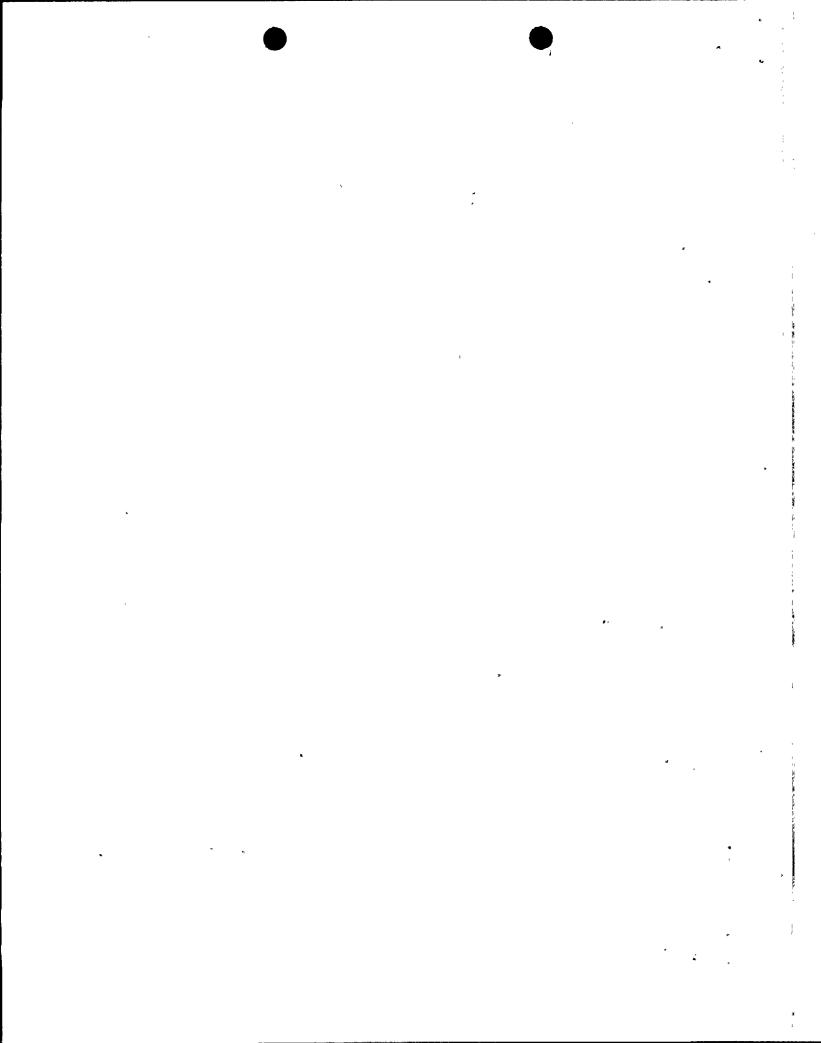
Commence with RCS at 300°F Establish pressurizer bubble Continue plant heatup

#### - REACTOR STARTUPS

- 2 Establish hot shutdown condition
  Perform reactor startup
  Accomplish 1/M during startup
- 2 Establish hot shutdown condition

  Perform reactor startup

  Repeat reactor startup



#### DISCUSSION AND OBSERVATION

TRAINING DAY	HOURS	SUBJECT	::
4	3,5	Review last operations	•
		Review Nuclear Instrumențatic	n Systems
	•	Review Reactor Control - Manu	al & Automatic
		Review Diablo Canyon Procedur Operations	es for Power
•			
		•	
5	3.5	Review last operations	
		Discuss next operations	
•	•	Review Diablo Canyon Procedur shutdown from minimum load	es for plant
		Review RCS Temperature Detect	ion
		· Review Pressurizer Level Cont	rol
	•		-
•	• .		
			às .

#### CONTROL ROOM

# HOURS OPERATIONS 4 POWER INCREASE Hot shutdown condition Perform reactor startup Start main feedwater pump Increase reactor power to 5 Roll main turbine to 1800 RPM

## 2 PLANT SHUTDOWN

Commence at 30% power

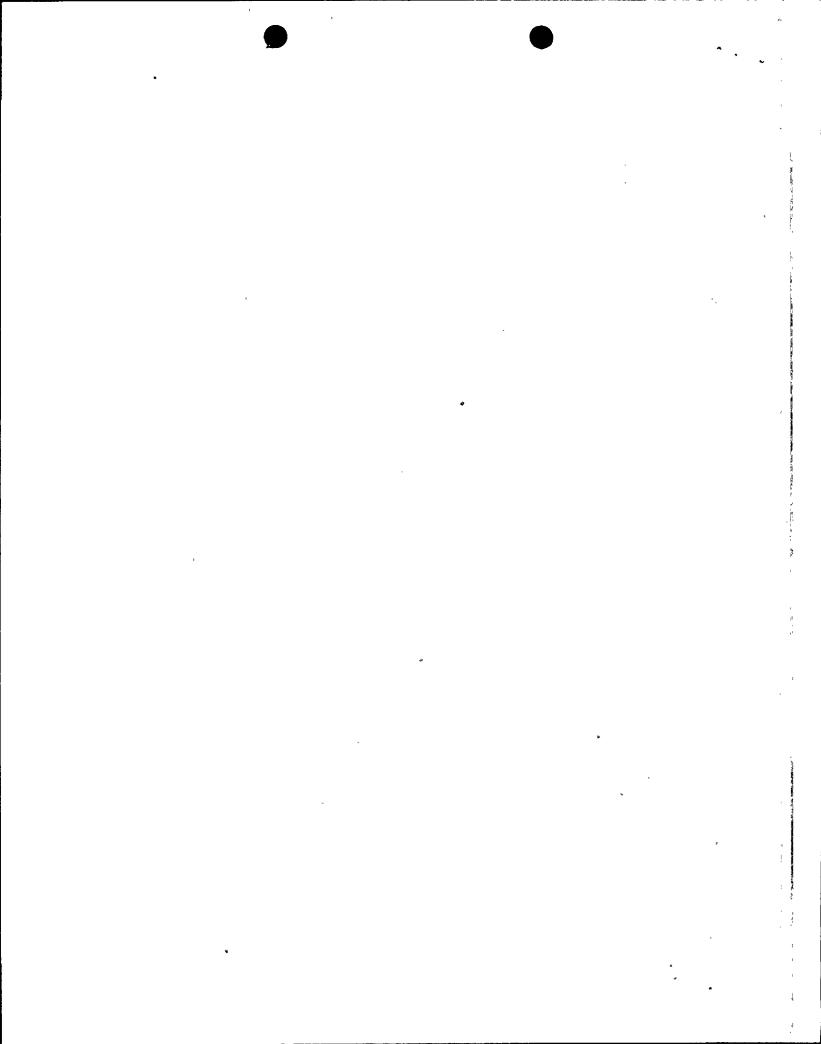
Reduce power for plant shutdown

Remove turbine-generator from
line

Synchronize generator to network and load towards 100%

#### 2 POWER INCREASE

Commence at 5% power
Proceed to Rated Full Power



# DISCUSSION AND OBSERVATION

# CONTROL ROOM

TRAINING DAY	HOURS	SUBJECT	Hours	<u>OPERATIONS</u>
6 =	3.5	Review last operations	4	100% Power Operation
		Discuss Diablo Canyon Reactor Trip Procedure		Reactor Trip and Recovery
•	•	Summarize the following Diablo Canyon EOPs:	•	ECP and Shutdown Margin Calculation
		<ol> <li>Loss of reactor coolant</li> <li>Main steam line or feedwater line break</li> <li>Steam generator tube failure</li> <li>Malfunction of reactor control system</li> <li>Loss of component cooling</li> <li>Loss of feedwater</li> <li>Loss of reactor coolant pump</li> <li>Emergency boration</li> </ol>		Hot Shutdown Requirements Reactor Startup Secondary Plant Startup
		Review Control & Permissive Interlocks, Reactor Trip Signals, & Safety Injection Signals		
7 .	3.5	Review last operations	4	Casualty Operations .
•	•	Discuss in detail malfunctions of control instrumentation systems		<ul> <li>Instrumentation and Control Failures</li> <li>LOCA</li> </ul>

