



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

MAR 16 1979

MEMORANDUM FOR: D. B. Vassallo, Assistant Director for LWRs, DPM
FROM: R. L. Tedesco, Assistant Director for Reactor Safety, DSS
SUBJECT: BOARD NOTIFICATION - RECENT ISSUE ON NONSAFETY-GRADE
EQUIPMENT (NSGE) TO MITIGATE TRANSIENTS

In analyzing anticipated operational occurrences (AOO), applicants (particularly BWRs) have relied upon normal operating equipment to mitigate the severity of the events. This equipment is not specifically qualified to seismic Category I or IEEE-279 requirements and has been termed nonsafety-grade equipment (NSGE); e.g., turbine bypass valves, relief valves, high water level trip, feedwater flow control, and pressure regulator. The reliability of such equipment has not been systematically evaluated by the staff and the issue focuses on the system design criteria that should be established for such equipment which is relied upon for mitigation, but to a lesser degree than required for other more severe events such as a LOCA or main steam line break.

NRC Office Letter No. 19 calls for a determination of the safety significance of new information by evaluating "whether this information could reasonably be regarded as putting a new or different light upon an issue before boards or as raising a new issue." Staff evaluation has reached a stage which concludes that this matter could be interpreted as raising a new issue. More information from a source or sources external to the staff is required to further study this issue. I therefore conclude that the notification test is met. In accordance with NRR Office Letter No. 19 requirement, I am providing you the following:

1. The item for notification
2. Considerations regarding relevancy and materiality
3. Statement on perceived significance
4. Relation to projects

Contact: T. M. Novak, NRR
49-27460

7905010198

MAR 16 1979

1. The Item

In the analysis of anticipated operational occurrences (AOO), credit has been given to non-safety grade equipment (NSGE) performing their normal function which can result in significant reductions with regard to the severity of the transient. The staff has not reviewed the design requirements for this equipment. Most of the equipment, however, is in normal plant usage in various control systems.

2. Relevancy and Materiality

The issue is relevant to evaluating the consequences of transients for all LWRs; however, it appears to be of particular concern for BWRs at this time.

3. Significance

In over 170 reactor years of normal BWR operations there has been no reported abnormal operational occurrence which has resulted in exceeding a technical specification safety limit. Based on this operating experience, we believe the real probability of an anticipated transient combined with an undesirable control system response which would result in violation of fuel damage criteria is low.

However, General Design Criterion 29 states:

"Protection against anticipated operational occurrences.
The protection and reactivity control systems shall be designed to assure an extremely high probability of accomplishing their safety functions in the event of anticipated operational occurrences."

In addition, 10 CFR 50.55a, "Codes and Standards," Section (h) requires that protection systems meet the appropriate edition of IEEE Std. 279. These criteria have been applied to the primary reactivity control systems, e.g., the reactor scram system and to safety systems, e.g., ECCS.

While operating experience indicates that there is no immediate safety significance to this issue, the General Design Criteria suggest that additional reviews to ensure adequate thermal margins is warranted. Such margins could come in the form of additional equipment surveillance requirements, equipment modifications, or reanalyses of certain anticipated transients without taking credit for nonsafety-grade equipment (thereby affecting operating limits).

MAR 16 1979

4. Relation to Projects

This relates primarily to BWRS. Since we view this issue as not having an immediate safety significance, operating reactors would be expected to await the outcome of our future reviews.

Appropriate boards should be aware of this issue and of the staff's plans to continue to evaluate its significance with regard to the acceptability of BWR transient analyses. It is anticipated that initial decisions on the direction of resolution on this issue would be available in 1979.

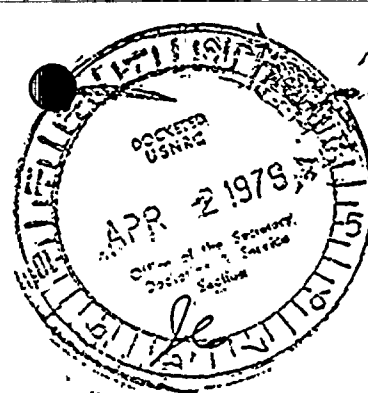


Robert L. Tedesco, Assistant Director
for Reactor Safety
Division of Systems Safety

cc: R. Mattson
V. Stello
T. Novak
R. Satterfield
V. Benaroya
G. Mazetis
S. Israel
R. Frahm
W. Mills
C. Graves
S. Hanauer

50-275-323 OL

Rec 7ac Br



TO: FEDERAL NUCLEAR REGULATORY COMMISSION
1990 North California Boulevard Suite 202
Walnut Creek Ca. 94596.

I am strongly against any nuclear power plants here in California. I am against anything potentially hazardous to the health of my loved ones, family, friends & mankind.

Until (if ever) nuclear Power production is proven safe in all facets, I'm for pursuing alternate forms (such as solar) or going without.

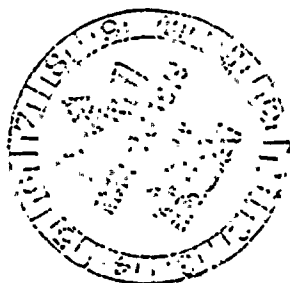
I speak for myself, my wife, our families and our friends.

WE ALL SAY: STOP THE DIABLO CANYON NUCLEAR POWER PLANT.

I hope our opinions will make Actions
that will make this world a safer place to live.

SINCERLY,

BRIANT BREWTON
728 H st.
Bakersfield, Ca.,
93304



4/2



AR-F.N.R. Commission!

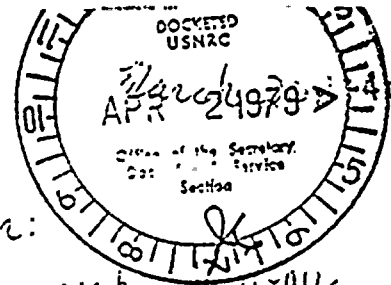
What are you gonna do about
Nuclear Power spreading
here. Well, we wanted to do
something here in California to
draw attention to the insane
threat to human life created by
Diablo Canyon nuclear
facility. We must do all we
can to help stop the uncontrollable
dump of deadly nuclear wastes
that threaten humanity itself.
You people see that!
getting Bad. HERE
Some questions AND I

would like some answers.

1. WHAT will PG&E do for an encore
after the earthquake? Will it be able
to purchase another environment, free
of cancer-causing radioactivity, for
San Luis Obispo & Santa Barbara counties?
Will it be able to replace the men
and women & children who lived
there? . . . I want to
know . . .

Sincerely

GRACIE GARLIA
860 CREEKSIDE CIR.
OAMARILLO, CALIF.
93010



To whom this may concern:

I am unable to comprehend why people do things that they know can only cause destruction. Why you are letting a Nuclear Power Plant remain in existence after the harm it has caused to the marine life in Diablo Canyon and especially after the discovery of the Hosgri Fault zone is beyond me.

If I remember correctly, the function of the Nuclear Regulatory Commission is to protect the people. If this is true, I'm pleading with you; protect us, not the project that will someday be the cause of death to all life as well as mankind. Please do your job and help in the fight to stop the Diablo Canyon Nuclear Plants.

Sincerely,

Jill C. Smith

201



Dear FNR Commission,

I just want to write to
make known my personal view
known about the Diablo Canyon
Power Plant. I'm against it. I
feel it could cause a disaster
costing some lives possibly.

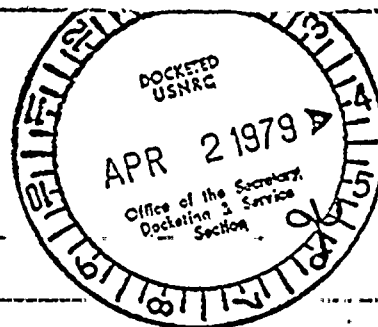
If possible I would like
some information on the updated
news on the issue.

Thank you for taking
the time in reading my
view.

Debra Kordeck
1636 Santa Cruz St
San Pedro, California
90722



Postmaster: 442



March 29 1979

Dear Sirs

I feel it is my duty to write to you and urge you not to grant a license for the Diablo Power Plant. If you do license it you will be helping in the destruction of the human Race. Why can't you look at the future outcome of this instead of being pressured by money and politics. Its sad that only a few are responsible for making life or death decisions.

Nuclear power is death to us all and that includes you too. No matter what you think you will also die and so will your children if we do not warn Nuclear Power NOW!

I beg you to stop
Sincerely yours

Acknowledged





of destroying them.

I also hope you to read
Nuclear Matters by De Leon
Caldicott. Maybe if you knew
all the facts you would be
able to make the right
decision.

Thank you,

Gatty Chung



Dear Commission -
I think you should
consider the next generation
I'm 19 and I would like
to have kids but feel I
can't because when there
is there will be radiation
everywhere in the
world as we know it to-
day will be an old me-
mory.

Acknowledged by card 412

Drabdo Canyon must
be stopped only
sadistic dumb bet
construct a power
Nuke plant on an
earthquake fault
that is liable and
expected to shake ANY TIME



Please make it possible
for children in the
future to laugh and
play and be happy

IT'S NOT TOO
LATE! IT'S

NEVER TOO
LATE!



Thank you
for all you have
done for the
education of
our children
and for the
future of our
country.



Dear Commission,

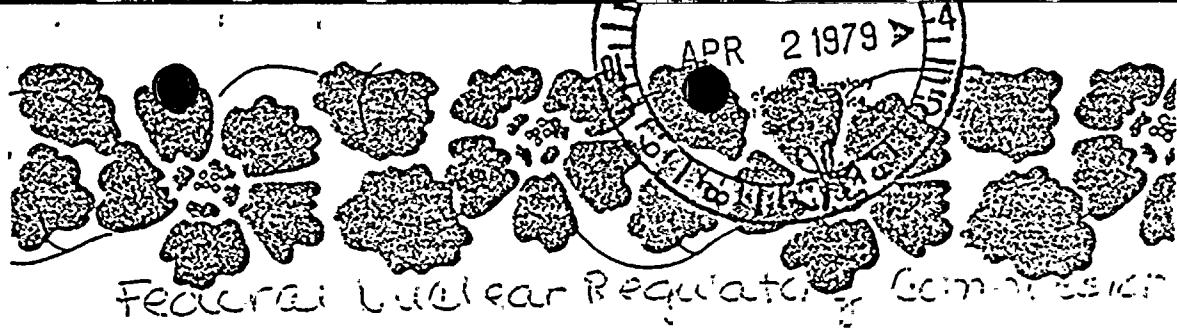
I'm writing to you at this time because it is my impression that the human race will come to an end if these nuclear power plants come about. No nuclear plant should be especially not in Diablo Canyon. You have no right to endanger anyone's life! We will do something about this too. You must hang it up before you destroy this place. Think hard cause you know it isn't ~~quite~~ right. No matter how much money is involved. Stop this Now!

Acknowledged by card... 4/2

Robyne Ryan
20350 Paradise Ln.
Topanga, Ca 90290

Unhappily,

Robyne



Please - Stop the construction of the Diablo Canyon Nuclear plant. It is destined to be a major disaster since, of course, it's on an earthquake fault. Who ever decided to put it in that location was either retarded or sadistic.

I've been all over the United States & there's no state like California. Please don't kill it. It's all up to you - A handful of men & women (?) to decide the fate of millions.

Please don't screw up & kill off the human race because of modesty & /or stubbornness!

Thank you!

Teresa Noel
6525 Laurel
Orange Park, Fla

Acknowledged by card. 4/2

March 21, 1979

50-275,323 OL



irperson,
eral Nuclear Regulatory Commision;
O North California Boulevard, Suite 202;
nut Creek, California, 94596

whom it may concern:

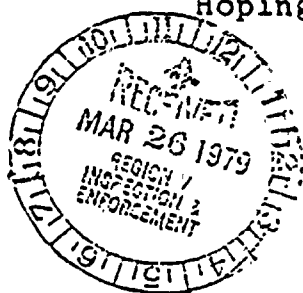
I am writing my viewpoints on Nuclear Power Plants.
m 15 years old and I do not want to live in a world where nuclear
er is the only solution to the energy shortage. It is extremely
gerous and you act as if nothing could go wrong. You are not letting
public know just how dangerous nuclear power really is.

Why take a chance on nuclear power when you could spend some more,
ey and more effort on other solutions to the energy shortage? Such
Solar Energy!

Is it really worth the risk and the inhumane danger of using nuclear
er when all you have to do is spend some more money and use more effort?

I know your minds don't think this way but maybe you will get some
se out of this letter.

Hoping for a safe and more humane society,



Julie R. Horowitz
Julie R. Horowitz
A citizen of
Los Angeles

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of)
PACIFIC GAS AND ELECTRIC COMPANY) Docket No.(s) 50-275
(Diablo Canyon Nuclear Power) 50-323
Plant, Units 1 and 2))
)
)
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)

CERTIFICATE OF SERVICE

I hereby certify that I have this day served the foregoing document(s) upon each person designated on the official service list compiled by the Office of the Secretary of the Commission in this proceeding in accordance with the requirements of Section 2.712 of 10 CFR Part 2 - Rules of Practice, of the Nuclear Regulatory Commission's Rules and Regulations.

Dated at Washington, D.C. this
3RD day of April 1979.

Regina T. Downing
Office of the Secretary of the Commission

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of)

PACIFIC GAS AND ELECTRIC COMPANY)

(Diablo Canyon, Units 1 and 2))

Docket No.(s) 50-275

50-323

SERVICE LIST

Elizabeth S. Bowers, Esq., Chairman
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Nuclear Projects Engineer
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FOR INFORMATION

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San Luis Obispo, California 93406

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Public Affairs Officer, Region V
U. S. Nuclear Regulatory Commission
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Walnut Creek, California 94596

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Atomic Safety and Licensing Appeal
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Washington, D.C. 20555

FRIENDS OF THE EARTH

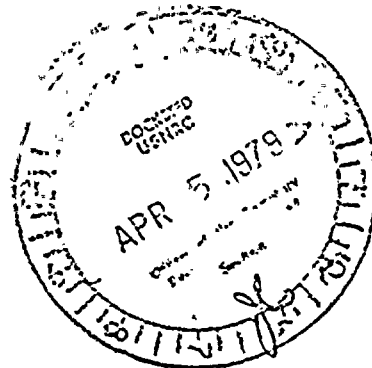
124 SPUR SAN FRANCISCO CALIFORNIA 94105

415 495 1770

RELATED CORRESPONDENCE

3/29

March 29, 1979



Mrs. Elisabeth Bowers
Atomic Safety and Licensing Board
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

RE: Diablo Canyon Nuclear Power Plant, Docket Nos. 50-275, 50-323

Dear Mrs. Bowers,

Intervenors apologize for not submitting proposed findings of fact on the adequacy of the Diablo Canyon plant security system. We were of course unable to make such proposed findings because we were denied access to the evidence, and barred from the hearing on the security plan.

Please order my name at the above address placed on the service list for this proceeding.

Sincerely,

W. Andrew Baldwin
Attorney for Intervenors/
San Luis Obispo Mothers for Peace,
Elizabeth Apfelberg, and Ecology
Action Club

WAB:cr

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

TELETYPE CORRESPONDENCE

Before the Atomic Safety and Licensing Board

In the Matter of)

PACIFIC GAS AND ELECTRIC CO.)

(Diablo Canyon Nuclear Power)
Plan, Units 1 and 2)

Docket Nos. 50-275 O.L.
50-323 O.L.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing Intervenor's Response

has been served as of this date by personal delivery or
first class mail, postage prepaid, to the following:

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San Luis Obispo, CA 93401

Mrs. Raye Fleming
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Mr. Frederick Eissler
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Santa Barbara, CA 93105

Mrs. Sandra Silver
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San Luis Obispo, CA 93401

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Washington, D.C. 20555

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Washington, D.C. 20555

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U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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APR 5 1978
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Dated: March 30, 1979 BY: Candida R. Rupp

