

Docket #3  
 57A)-50-528  
 50-529  
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 50-323

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MAY 12 1977

Major M. R. Massis, USMC  
 106 King Richard Court  
 Jacksonville, N. C. 28540

bcc: Arizona Public Service  
 Company  
 Pacific Gas & Electric Co.

Dear Major Massis,

I am pleased to respond to your letter of February 17, 1977 to Mr. Dennis Allison requesting information on certain aspects on nuclear power. The material provided is discussed below.

The environmental considerations with respect to nuclear power plant consideration are well illustrated in the Final Environmental Statement for the Palo Verde Nuclear Generating Station (Enclosure 1).

The principal NRC regulations on environmental considerations for nuclear power plants are contained in 10 CFR Part 51 (Enclosure 2). Individual states have their own environmental requirements and procedures. You should contact the appropriate state government(s) if you need further information about this requirements.

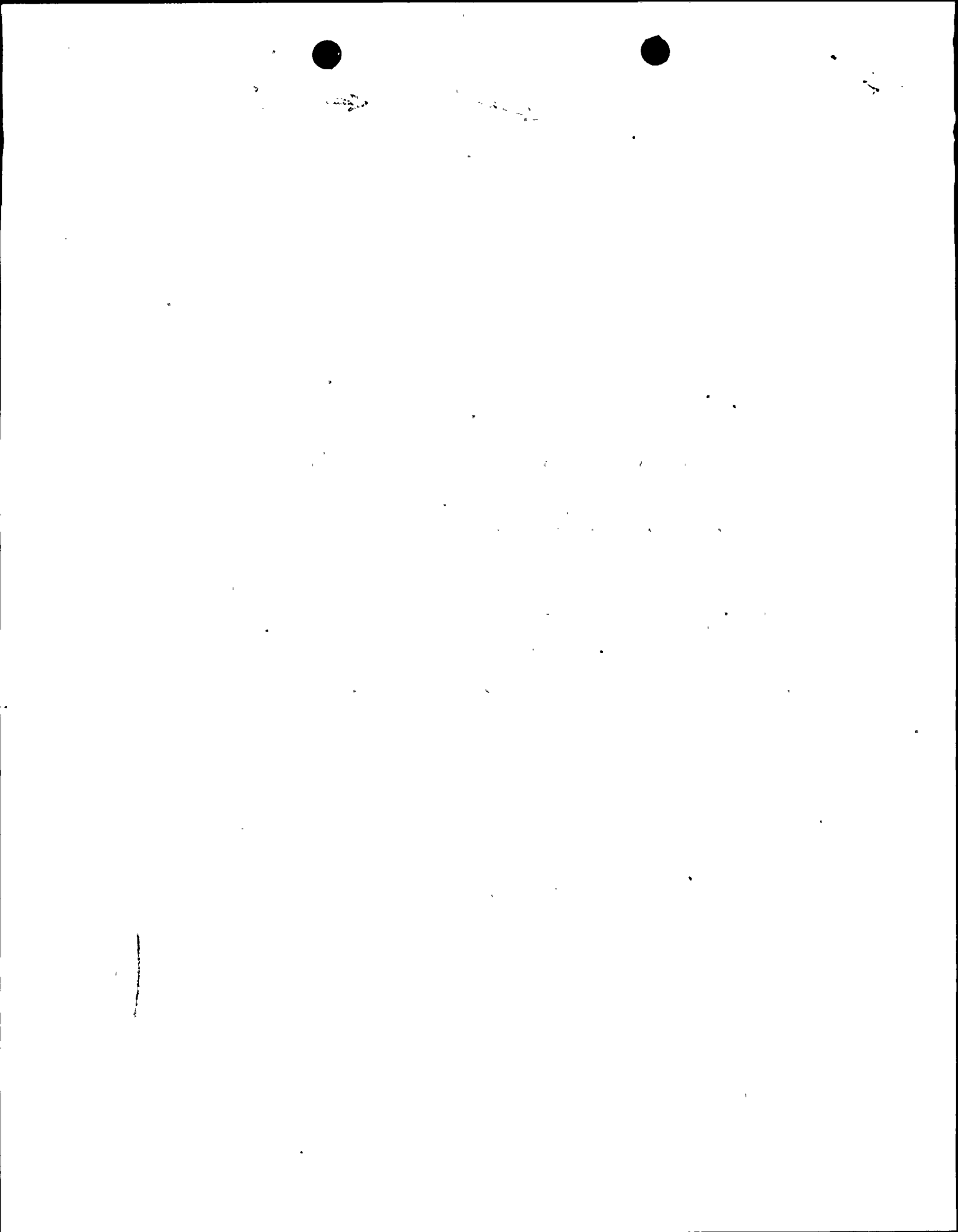
Sources and cost data for uranium fuel are summarized on pages 39-49 of the NRC staff's Proposed Findings which were submitted following recent environmental hearings for the Diablo Canyon Nuclear Power Plant (Enclosure 3).

A number of fast breeder reactors have been built and operated in the U. S. and elsewhere. A readily available summary of the worldwide experience is contained in the current issue of Scientific American (March 1977) in an article about the French demonstration plants. The U. S. Energy Research and Development Administration had been planning to build, in a joint venture with the electric utility industry, a large scale demonstration plant suitable for commercial electric power generation at the Clinch River site in Tennessee. However, this program is being reconsidered by Congress in light of the President's recommended energy policies. Fusion research is outlined in Enclosure-4.

Two studies on waste disposal systems are enclosed (Enclosures 4 and 5).

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Major M. R. Massis, USMC

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In addition, an order form to obtain publications from the Energy Research and Development Administration is included (Enclosure 6). More extensive information is available from the ERDA Technical Information center as discussed in the order form.

I trust this information will be useful to you in your work.

Sincerely,

Original Signed by  
John F. Stolz

John F. Stolz, Chief  
Light Water Reactors Branch No. 1  
Division of Project Management

Enclosures:

1. Final Environmental Statement  
Palo Verde Nuclear Generating  
Station Units 1, 2 & 3
2. 10 CFR Part 51
3. NRC Staff's Proposed Findings of  
Fact and Conclusions of Law  
in the Form of a Proposed Decision
4. Worlds Within Worlds: The Story of  
Nuclear Energy Volume 3
5. Alternative Processes for Managing  
Existing Commercial High-Level  
Radioactive Wastes
6. NRC Task Force Report on Review of  
the Federal/State Program for  
Regulation of Commercial Low  
Level Radioactive Waste Burial  
Grounds
7. Order Form for Publications from  
the Energy Research and Development  
Administration

OFFICE >	LWR-#1	LWR-#1	LWR-#1		
SURNAME >	BALLISON:klj	JStolz	E. Alton		
DATE >	5/12/77	5/12/77	5/12/77		



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Major Malcolm R. Massie, USMC  
106 King Richard Court,  
Jacksonville, N. C. 28540  
17 February 1977

Mr. Dennis Allison,  
U. S. Nuclear Regulatory Commission,  
Germantown, Md. 20767

Dear Sir:

I am, concurrent with a military career, pursuing a Master of Science degree in Systems Analysis and Management with the University of Southern California. As part of the requirements for completion of one sub-course in organization theory, I am preparing a paper dealing with a major problem facing our country - energy depletion.

Your recent letter to the editor in the Washington Post prompted me to write you for information. Specifically, I would appreciate any details you can provide in the following areas;

- a. Environmental considerations with respect to nuclear power plant construction
- b. Federal and state regulations concerning (a) above
- c. Sources and cost data for nuclear fuels
- d. Present and future status of "breeder" reactors and fusion power
- e. Nuclear waste disposal systems, including container dimensions and weights - I am attempting to develop the feasibility of an innovative disposal system, one that may not have the adverse environmental impact of present systems, utilizing the Space Shuttle or some similar device, and discarding canisters into extraterrestrial orbit.

Any information on the above or related subjects will be treated with strict confidentiality. A compilation of the results will be made available, if you so desire, upon completion of the project.

Sincerely,

