

AUG 2 1985

Mr. R. E. Jones, Project Manager  
Energy Systems  
Aerojet Energy Conversion Company  
P. O. Box 13222  
Sacramento, California 95813

Dear Mr. Jones:

SUBJECT: REQUEST NUMBER ONE FOR ADDITIONAL INFORMATION ON AECC-3-P(NP)

We are currently reviewing the Aerojet Energy Conversion Company Licensing Topical Report AECC-3-P(NP) entitled "Radioactive Waste Volume Reduction Systems".

The initial review reveals the need for the additional information indicated in the enclosure. In order to complete this review within the currently scheduled time, responses to all questions should be received by NRC by August 30, 1985. Please advise H. Bernard at (301) 492-9799 if you cannot meet this date.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OBM clearance is not required under P.L. 96-511.

Sincerely,

Cecil O. Thomas, Chief  
Standardization & Special  
Projects Branch  
Division of Licensing

Enclosure:  
As stated

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QUESTIONS FOR AEROJET ENERGY CONVERSION COMPANY (AECC)  
REGARDING TOPICAL REPORT NO. AECC-3-P(NP)  
RADIOACTIVE WASTE VOLUME REDUCTION SYSTEM

1. Identify NRC questions and answers for Topical Report No. AECC-2-P(NP) that are fully or partially applicable to Topical Report No. AECC-3-P(NP). Where questions and answers are not applicable or are partially applicable, explain and provide complete answers regarding Topical Report No. AECC-3-P(NP). Reference to appropriate contents of the NRC Safety Evaluation Report on Topical Report No. AECC-2-P(NP) should be made to clarify how questions and answers that are not fully applicable to Topical Report No. AECC-3-P(NP) would convey alternative or additional safety evaluation considerations for Topical Report No. AECC-3-P(NP).
2. Describe the extent to which the VR system environment design criteria, system design criteria, and component design criteria and qualification testing for the Gas Filter Assembly conform to the guidance or intent of the guidance of Regulatory Guide (RG) 1.140. Describe the extent to which AECC-recommended maintenance, in-place testing criteria, and laboratory testing criteria for activated carbon for the Gas Filter Assembly conform to the guidance or intent of the guidance of RG 1.140. Provide sufficient description of the Gas Filter Assembly to enable decontamination factors to be assigned in accordance with RG 1.140.

3. Provide an estimate of the 10CFR Part 61 classification of the VR system waste products for BWRs and PWRs. Provide an estimate of the extent to which these waste products, after solidification, will meet the waste form (stability) requirements of 10 CFR Part 61.
4. Provide approximate estimates for the effective hold-up times within the VR system for airborne effluents from evaporator concentrates and from spent resins processing after introduction to the system, and for radioactive iodine in VR system condensate and leakage sent to the plant radwaste system.
5. Clarify whether the storage hopper and other "optional" components are within the scope of the topical report.

6. Justify your reasoning for deleting the spray ports from the gas/solids separator (S-1) and the product storage hopper (H-1) in the System 3 volume reduction system.
7. Since the product conveyor (R-4) will be used to convey the radioactive waste to the packaging system, describe how you plan to decontaminate this component should the conveyor require maintenance.
8. The component designation for the contaminated oil skid and the decontaminated skid are reversed in Section 6.2, part h and i of Topical Report No. AECC-3-P. The designation should be SS-3 for the contaminated oil skid and SS-4 for the decontaminated skid.