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## UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

## BEFORE THE ATOMIC SAFETY AND LICENSING APPEAL BOARD PANEL

	In the Matter of			
	VERMONT YANKEE NUCLEAR POWER ) CORPORATION			
	(Vermont Yankee Nuclear Power ) Station)	Docket	No. 5	0-271
	PUBLIC SERVICE ELECTRIC & GAS COMPANY			
	(Salem Nuclear Generating Station, Units 1 & 2)	Docket	Nos.	50-272 50-311
	PHILADELPHIA ELECTRIC COMPANY			
	(Peach Bottom Atomic Power Station, Units 2 & 3)	Docket	Nos.	50-277 50-278
/	METROPOLITAN EDISON COMPANY, et al.			
	(Three Mile Island Nuclear Station, Units 1 & 2)	Docket	Nos.	<u>50-289</u> 50-320
	DUQUESNE LIGHT COMPANY, et al.			
	(Beaver Valley Power Station, Units 1 & 2)	Docket	Nos.	50-334 50-412
	PHILADELPHIA ELECTRIC COMPANY			
	(Limerick Generating Station, Units 1 & 2)	Docket	Nos.	50-352 50-353
	PUBLIC SERVICE ELECTRIC AND GAS COMPANY and ATLANTIC CITY ELECTRIC COMPANY			
	(Hope Creek Generating Station, Units 1 & 2)	Docket	Nos.	50-354 50-355
	PENNSYLVANIA POWER AND LIGHT			
	(Susquehanna Steam Electric ) Station, Units 1 & 2)	Docket	Nos.	50-387 50-388

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE, et al.	
(Seabrook Station, Units 1 & 2)	) Docket Nos. 50-443
UNION ELECTRIC COMPANY	}
(Callaway Plant, Units 1 & 2)	Docket Nos. STN 50-483 STN 50-486
DUKE POWER COMPANY	3111 30-430
(Catawba Nuclear Station, Units 1 & 2)	Docket Nos. 50-413 50-414
GEORGIA POWER COMPANY	
(Alvin W. Vogtle Nuclear Plant, Units 1 & 2)	Docket Nos. 50-424 50-425
TENNESSEE VALLEY AUTHORITY	
(Hartsville Nuclear Plant, Units 1A, 2A, 1B and 2B)	Docket Nos. 50-518 50-519 50-520 50-521

## NRC STAFF VIEWS ON CONSIDERATION OF UNCERTAINTIES IN USE OF VALUES SET FORTH IN TABLE S-3 OF 10 CFR PART 51

## Background

On March 14, 1977, the Commission promulgated a new interim rule governing consideration of environmental impacts of the fuel cycle in individual reactor licensing proceedings, including revised impact values attributable to reprocessing and waste management (42 F.R. 13803). On April 1, 1977, the Commission directed the presiding Appeal Boards to determine the impact of the interim rule on the cost/benefit balances

which had been struck for each of the captioned facilities.

The Appeal Boards, on April 21, 1977, provided the parties involved in the proceedings with the opportunity to file further submissions limited to an assignment of reasons why, in light of the interim rule, the cost/benefit balance for the facility in question tips, or might tip, in favor of abandonment of the facility. The Appeal Boards provided parties with the opportunity to respond to submissions filed by another party.

The Staff does not believe that the effect of the interim rule would be to tip the cost/benefit balance in favor of abandonment  $\frac{3}{4}$  for any of the listed facilities; accordingly, we will not file an initial submission in response to ALAB-392. However, the Appeal Board Fanel indicated that it nevertheless would appreciate the views of all parties with respect to one point, set out at length in footnote 7 of ALAB-392, relating to the weight that should be

The order encompassed the first ten proceedings captioned above. For each of these facilities, petitions had been filed by various persons requesting suspension of operation or construction. All but seven of the facilities were otherwise involved in a proceeding pending before Licensing Boards, Appeal Boards, or the Commission in adjudicatory licensing proceedings.

<sup>2/</sup> The Appeal Board Panel Order also encompassed the last three captioned proceedings.

The Staff has prepared, and adapts for individual proceedings a characterization of the impacts set forth in Table S-3, quantified to the extent possible in the same units and descriptive terms used in the applicable FES or other evidence of record with respect to similar plant-specific impacts. Comparison of fuel cycle effects with similar plant-specific impacts and with the background upon which such effects are imposed, we believe, provides valuable perspective on the nature of such impacts. If relevant to matters raised by other parties, the Staff would file such information along with our response.

will be negligible per reference reactor year." (Environmental Survey of the Reprocessing and Waste Management Portions of the LWR Fuel Cycle, NUREG-0116, at 2-12; hereinafter "Survey"). The Task Force's assessment is discussed at some length in its responses to comments received from the public, NUREG-0216, particularly section 3.3.

In short, the Commission recognized that uncertainties existed with regard to values in the Table S-3 including but not limited to values with regard to solidified waste which would be generated during reactor operation. However, the Commission decided to proceed with the promulgation of an interim rule stating:

"In summary, the Commission has decided to proceed with promulgation of the interim rule. It has looked at the uncertainties and unknowns identified in the Supplement. It has weighed the risks of proceeding with licensing on the basis of the interim rule against the costs of not proceeding. The Commission has found that the costs of not proceeding outweigh the risks of proceeding by interim rule especially given the fact that a relatively short period of time, eighteen months, may pass before a more thorough discussion of the issues will be completed in the final rulemaking proceeding. There is no perceived need for the Commission to wait for site specific information or to wait for ERDA's generic environmental impact statement on high-level waste management. In some areas--including critical areas where a substantial measure of expert judgment had to be applied -- it is unlikely that substantial new information of a quantitative nature will be available for years. As the Court said in Citizens for Safe Power v. MRC, 524 F.2d 1291, 1297 (D.C. Cir. 1975):

-7-'Absolute or perfect assurances are not required by (the Atomic Energy Act), and neither present technology nor public policy admit of such a standard. It was for the Commission to arrive at a rational, practical and principled conclusion upon the basis of reasonably available evidence.'" (42 F.R. 13805). Thus, the values set forth in the rule meet the criteria of NEPA and may be used to complete the cost/benefit balances for individual reactors. They represent the best available information of a quantitative nature regarding the environmental impacts from waste management and reprocessing. Any uncertainties that may exist were weighed by the Commission in its determination to promulgate the interim rule. For proceedings conducted using the interim rule, all of the values set forth in the interim rule are to be used as given, without further need to consider the effect of uncertainties mentioned by the Commission in its determination to issue the interim rule. Conclusions Table S-3 identifies solidified high level wastes as buried at a Federal respository, and, under the rule, no release to the environment is associated with such disposal. In licensing proceedings 1586 097

- 8 conducted during the period of the interim rule, this is the impact value to be attributed to such waste, which is to be used without further consideration of uncertainties in these values. Respectfully submitted, Joseph To Secretalya Joseph F. Scinto Assistant Chief Hearing Counsel Jane C. applicat Counsel to NRC Staff Dated at Bethesda, Maryland this 20th day of May, 1977. 1586 098