



State of New Jersey

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U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Gentlemen:

Subject: Hope Creek Generating Station Docket No. 50-354  
License Change Request LCR 94-32  
Extension of Containment Vent and Purge Valve  
Operation

The subject request was submitted to the Nuclear Regulatory Commission by Public Service Electric and Gas Company on May 4, 1995. This amendment revises Technical Specification Section 3/4.6.1.8 Drywell and Suppression Chamber Purge System and its associated Bases section by extending the annual 120 hour operational limit to 500 hours.

The New Jersey Department of Environmental Protections Bureau of Nuclear Engineering (BNE) reviewed the above amendment in accordance with the requirements of 10 CFR 50.91(b), and has the following comments.

The BNE believes that since variances to the allowable operating limit for the containment purge system are based on plant specific equipment configurations, site meteorology, radiological source term for reactor type, etc., the bases for extending this limit to 500 hours should be provided. The NRC's Safety Evaluation for Amendment 16, which extended the annual 90 hour limit to 120 hours, contains a detailed explanation and justification for the increase of 30 hours per year. However, this request does not

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provide a similar justification. Also, PSE&G says that while there is a slight increase in the possibility of purge operations at the onset of a LOCA, any resulting release would be insignificant and bounded by existing LOCA analysis. The BNE, however, suggests that although this resulting release could be insignificant, its radiological impact should be analyzed and discussed in this amendment request.

If you have any questions, please contact Suren Singh at (609) 984-7575 or Rich Pinney at (609) 984-7558.

Sincerely,



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# CB0695K2

Facility: Catawba Nuclear Station NPDES No: SC0004278 County: York  
 Sampling Point: 002 (Conventional Waste Treat. System) Receiving Stream: Lake Wylie  
 Laboratory: Duke Power Biomonitoring Cert. No: 99005 Exp. Date: 12/31/96  
 Test Organism: Ceriodaphnia dubia Temp Range: 24.5 to 25.2 °C IWC: 100%  
 Test Type: ( ) hr acute; ( 7 ) d chronic; static  daily-renewal  
 Started (date/time): 06-22-95 / 1044 Ended (date/time): 06-29-95 / 1059

Dilution Water Source: Alk Hard Cond  
Mod. Hard Reconstituted Milli-Q Water  
 DPC Lot# MHR- 034 54.1 76.9 285

Sample Type: grab ( 24 ) hr comp.  

Sample #	date/time collected	Alk	Hard	Cond	Cl2	# renewals
CN069507	06-21-95 / 1100	25.1	26.2	436	NM	2
CN069508	06-22-99 / 1200	18.9	26.1	430	NM	5

### Control

Day		1	2	3	4	5	6	7	8
Temp	(°C)	24.9	25.0	24.9	24.7	24.8	24.6	25.0	24.5
D.O.	initial	8.3	8.4	8.1	8.1	8.1	8.0	8.2	
	final	8.3	7.9	8.0	7.9	7.9	8.1	8.2	
pH	initial	8.1	8.1	8.2	7.9	8.0	8.1	8.0	
	final	8.1	8.2	7.9	7.8	7.9	7.9	7.8	

### (100) % Effluent

Day		1	2	3	4	5	6	7	8
Temp	(°C)	25.2	25.0	25.0	24.9	24.7	24.5	24.6	24.8
D.O.	initial	8.8	8.2	8.1	8.1	8.0	8.0	8.1	
	final	8.0	7.9	7.8	7.8	7.7	8.0	8.1	
pH	initial	7.4	7.6	7.6	7.3	7.5	7.6	7.5	
	final	7.7	7.7	7.6	7.7	7.6	7.7	7.6	

Comments:  
 Principal Analyst: B.N. Young Procedure Number: BIO-260.0 (SC P/F Modification)  
 Organism Age at Initiation: 11 to 19 hours Organism Source: Duke Power Culture (Tray P)  
 Sample CN069507 Temperature at Receipt: 0.6 °C Test Solution Volume: 15 mL  
 Sample CN069508 Temperature at Receipt: 0.8 °C Test Vessels: 30-mL polystyrene  
 Test conducted with < 3 samples as per NPDES permit (due to intermittent batch discharge)  
 No. Organisms per Test Vessel: 1 Feeding: Daily: 0.1 mL ea. YTC and Selenastrum susp.  
 Aeration: None M=Male; NA=Not Applicable; NM=Not Measured; ND=Not Detected

Data checked by: Keith A. Farley Date: 7/7/95  
 Laboratory Supervisor: Chris Davidson Date: 12 July 95

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