



May 3, 2000
RC-00-0233

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

Gentlemen:

Subject: VIRGIL C. SUMMER NUCLEAR STATION
DOCKET NO. 50/395
OPERATING LICENSE NO. NPF-12
NPDES PERMIT NO. SC0030856

Bruce C. Williams
General Manager
Nuclear Plant Operations
803.345.4646

South Carolina Electric & Gas Company (SCE&G) hereby submits a copy of a modification to the Virgil C. Summer Nuclear Station National Pollutant Discharge Elimination System (NPDES) permit, No. SC0030856. The revision was approved by the South Carolina Department of Health and Environmental Control with an effective date of May 1, 2000.

Should you have any questions regarding this submittal, please contact Ms. Susan B. Reese at (803) 345-4591.

South Carolina Electric & Gas Co
Virgil C. Summer Nuclear Station
P. O. Box 88
Jenkinsville, South Carolina
29065

803.345.4344
803.345.5209
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Very truly yours,

Bruce C. Williams

SBR/BCWsbr

c: J. L. Skolds (193)
T. G. Eppink
R. J. White
L. A. Reyes
K. R. Cotton
NRC Resident Inspector
J. B. Knotts, Jr.
RTS (O-L-99-0385)
DMS (RC-00-0233)
File (814.07-1)

(w/o attachment)
(w/o attachment)
(w/o attachment)

(w/o attachment)



2600 Bull Street
Columbia, SC 29201-1708

CERTIFIED MAIL/RETURN RECEIPT REQUESTED

RECEIVED

APR 19 2000

NL&OE

April 18, 2000.

Mr. Gary J. Taylor, Vice President
Nuclear Operations
SCE&G
P. O. Box 88
Jenkinsville, South Carolina 29065

RE: SCE&G/V C SUMMER NUCLEAR STAT
NPDES Permit # SC0030856
Fairfield County

Dear Mr. Taylor:

Enclosed is the modification to the National Pollutant Discharge Elimination System (NPDES) Permit for the above referenced facility. The modifications to the permit are as follows:

1. Outfall 014 - pH has changed to 6.0 - 9.0 for the months of May - September. 6.0 - 8.5 for the months of October - April. Change is due to algae growth.
2. Rationale - changed due to above modification.

This modification will become effective on the effective date specified in the modification, provided no appeal for an adjudicatory hearing is made. In the event an appeal is filed, the entire modification is automatically stayed. After the start of the administrative review any party may request the Administrative Law Judge (ALJ) to lift the automatic stay. The ALJ will then determine which portions of the permit modification, if any, will go into effect before the administrative review has been completed.

If you wish to appeal the staff's decision, you must submit an initial pleading in accordance with Regulation 61-72, Volume 25, S.C. Code of Laws, 1976, as amended. As required by this regulation, the initial pleading must be served on the Board of SCDHEC, Attn: Clerk of the Board, 2600 Bull Street, Columbia, S.C. 29201, (803)898-3300. The submission of the initial appeal will be within the time period if delivered by First Class mail or other parcel delivery service on or before the fifteenth day.

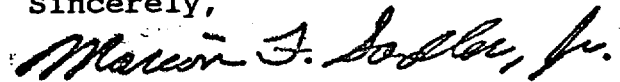
The following elements must, at a minimum, be included within the request:

1. Identity of the petitioner and nature of interest in the matter for which review is requested;
2. Caption or other information sufficient to identify the permit decision being appealed;
3. The date of receipt of the decision;
4. Facts, stated with particularity, alleged by the petitioner as grounds entitling it to relief;
5. A summary of any prior proceedings in the case, and the extent of petitioner's participation;
6. The relief requested;
7. Any other information necessary for a clear understanding of the case; and

8. An agreement by the petitioner to be subject to cross-examination and to make any employee or consultant of such petitioner or other person represented by the petitioner available for cross-examination at the expense of the petitioner or such other person upon the request of the Hearing Officer, on his own motion, or on the motion of any party.

If you have any questions about the technical aspects of this permit, please contact me at (803) 898-4167. Information pertaining to adjudicatory matters may be obtained by contacting the Legal Office, SCDHEC, 2600 Bull Street, Columbia, S.C. 29201, or by calling them at (803) 898-3350.

Sincerely,



Marion F. Sadler, Jr., Director
Industrial, Agricultural, and
Storm Water Permitting Division

Enclosure

cc: EPA
Betty Lou Foster, NPDES Permit Administration
Enforcement Section
District Office

MODIFICATION: May 1, 2000


BUREAU OF WATER

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 014: Combination of Internal Outfalls 005, 06A, 06B, and 008 to Monticello Reservoir.

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Monthly	Daily	Monthly	Daily	Frequency	Type
	Average	Maximum	Average	Maximum		
Flow-m ³ /day (MGD)	N/A	N/A	MR, MGD	MR, MGD	Continuous	Continuous**
Total Residual Chlorine*	N/A	N/A	0.011 mg/l	0.019 mg/l	1/Month	Grab
Ammonia	N/A	N/A	2.1 mg/l	4.2 mg/l	1/Month	Grab
Copper*	N/A	N/A	0.028 mg/l	0.039 mg/l	1/Month	Grab
Zinc	N/A	N/A	0.059 mg/l	0.065 mg/l	1/Month	Grab
pH (May - September)	N/A	N/A	6.0 s.u.	9.0 s.u.	1/Month	Grab
pH (October - April)	N/A	N/A	6.0 s.u.	8.5 s.u.	1/Month	Grab

(*) See Part III, Special Condition 17.

(**) See Part III, Special Condition 11.

MR = Monitor and Report

2. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
After discharge, but prior to commingling with the receiving stream.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this Permit and lasting through the expiration date, the Permittee is authorized to discharge from outfall(s) serial number(s) 014: Combination of Internal Outfalls 005, 06A, 06B, and 008 to Monticello Reservoir.

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
⁽¹⁾ Whole Effluent Chronic Toxicity Testing				
Percent Increase Mortality	20%	50%	1/Quarter ⁽¹⁾	Grab
Percent Reduction in Reproduction	20%	50%	1/Quarter ⁽¹⁾	Grab

(1) See Part III Special Condition 12 a,b

2. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): After discharge, but prior to commingling with the receiving stream.

MODIFICATION RATIONALE

SCE&G/VC Summer Nuclear Station
NPDES Permit #SC0030856
Modification Date February 2000

Christina Lewis
Fairfield County

VC Summer sent in a letter dated December 6, 1999 requesting an alternate limit for pH of 6.0 - 9.5 s.u. during the months of May - September. The request was a result of permit violations for pH, which the permittee attributed to an algae growth problem due to high temperatures and dry weather during the summer. The use of algacide products that contain copper or chlorine is not feasible due to the fact that Outfall 014 has copper and chlorine limits.

Information was submitted with the request which showed that monitoring stations uplake from Outfall 014 have exhibited high pH readings during the summer months. This has been attributed to phytoplankton photosynthetic activity in the surface water. In 1997, the pH at the uplake monitoring station ranged from 6.5 (at a depth of 23 meters) - 9.2 s.u. (at a depth of 2 meters). In 1998, the pH at the uplake monitoring station ranged from 6.5 (at a depth of 26 meters) - 9.1 s.u. (at a depth of 2 meters). In 1999, the pH at the uplake monitoring station ranged from 6.6 (at a depth of 24 meters) - 8.9 s.u. (at a depth of 3 meters). The data that was submitted is attached in Appendix I.

Additionally, the Watershed Water Quality Management Strategy for the Broad Basin (Technical Report No. 001-98) issued by SCDHEC shows an increasing trend for pH in Lake Monticello and even with these conditions, classified uses are being maintained. The report goes on to state that "although pH excursions have occurred, higher pH levels are not uncommon in lakes with significant aquatic plant communities and are considered natural, not standards violations". Monitoring Station #B-327 had 10 exceedances for pH (14% of pH samples contravened the appropriate standard). Reg. 61-68.C(6) states that some waters have characteristics outside the standards, but that these natural conditions do not constitute a violation of the standard. The Watershed Water Quality Management Strategy for the Broad Basin states that Lake Monticello is characterized by low nutrient concentrations. The Department therefore concludes that there is not an anthropogenic cause for the algal growth.

Based on the above information, this Office agrees to modify NPDES Permit #SC0030856 to allow for pH limits of 6.0 s.u. - 9.0 s.u. from May through September. During October through April, the pH shall remain 6.0 - 8.5 s.u.

APPENDIX I