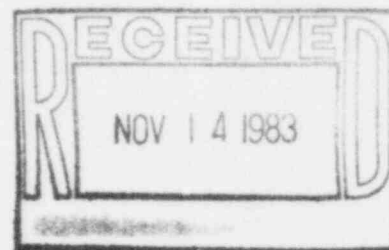


DMB

Omaha Public Power District  
1623 Harney Omaha, Nebraska 68102  
402/536-4000

November 7, 1983  
LIC-83-278

Mr. J. E. Gagliardo, Director  
Division of Resident Reactor Project  
& Engineering Programs  
U. S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011



Dear Mr. Gagliardo:

NPDES Permit Violation

The Omaha Public Power District, pursuant to an agreement made by letter dated April 15, 1983, provides the attached non-compliance reports for the Fort Calhoun Station, NPDES permit number NE 0000418. A copy is also being provided to the Director, Office of Nuclear Reactor Regulation.

Sincerely,

A handwritten signature in dark ink, appearing to read "W. C. Jones".

W. C. Jones  
Division Manager  
Production Operations

WCJ/JCB:jmm

Attachments

cc: Mr. Darrell G. Eisenhut, Director  
U. S. Nuclear Regulatory Commission  
Office of Nuclear Reactor Regulation  
Division of Licensing  
Washington, D.C. 20555

LeBoeuf, Lamb, Leiby & MacRae  
1333 New Hampshire Avenue, N.W.  
Washington, D.C. 20036

Mr. E. G. Tourigny, Project Manager  
Mr. L. A. Yandell, Senior Resident  
Inspector

8404100227 831107  
PDR ADDCK 05000285  
S PDR

TE-2511

**Omaha Public Power District**  
1623 Harney Omaha, Nebraska 68102  
402/536-4000

October 27, 1983

83-QARA-102

Mr. Jay D. Ringenberg  
Chief, Permits & Enforcement Section  
State of Nebraska  
Department of Environmental Control  
Box 94877, State House Station  
Lincoln, Nebraska 68509-4877

RE: NPDES Noncompliance Reports for the Fort Calhoun Station

Dear Mr. Ringenberg:

Please find enclosed NPDES Noncompliance Reports for the Fort Calhoun Station from samples taken on October 12, 17, 19, 20, 21, 23 and 25, 1983.

Currently the District is in the process of repairing and modifying the chemical equalization and decantation holding basins (settling basins) at the Fort Calhoun Station. This is being done for the purpose of maintenance and improvement of the recirculation and neutralization capabilities of the system.

Repairs on the piping system will involve the replacement of piping with fibercast pipe to prevent future corrosion. The modifications will include new valves and valve arrangements. This modification will improve retention of water plant discharges in one basin while recirculation/neutralization or releasing is occurring in the other.

Due to the current tie-in between the two settling basins and the requirement to keep one basin empty throughout the duration of the modification work, discharges without recirculation have become necessary. Subsequent pH noncompliance problems have resulted and will continue until the repair and modification work is completed.

Work on the settling basins is scheduled for completion approximately four weeks from this date. At that time, the frequent condition of pH noncompliance at the Fort Calhoun Station should cease.

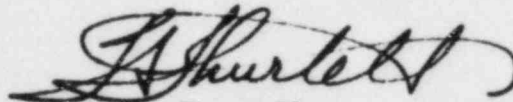
Mr. Jay D. Ringenberg  
October 27, 1983  
Page 2

On October 26, 1983, Jack Quackenbush telephoned you about the possibility of submitting one letter upon completion of construction which would contain all the violations during the repair and modification time period rather than reporting each noncompliance.

This letter serves as the District's formal notification of our intention to report future noncompliances during the construction period in this manner. We shall also keep you informed on the progress of the repair and modification work up to its completion.

If you require any further information or have any questions or comments on any of the above, please advise.

Sincerely,

A handwritten signature in dark ink, appearing to read 'F. A. Thurtell', with a stylized, flowing script.

F. A. Thurtell  
Division Manager  
Quality Assurance & Regulatory Affairs

FAT/TVG:cb

Enc.

PERMITEE NAME:

Omaha Public Power District  
Fort Calhoun Station

NEBRASKA DEPARTMENT OF ENVIRONMENTAL CONTROL  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

NON COMPLIANCE REPORT



THIS REPORT MUST BE FILED WHEN THE LABORATORY  
TEST RESULTS FROM ANY EFFLUENT SAMPLE EXCEEDS  
THE LIMITS IN YOUR NPDES DISCHARGE PERMIT.

INSTRUCTIONS FOR COMPLETION ARE ON BACK.

NE 0000418  
PERMIT NUMBER

Date  
Sample  
Taken

813	110	112
YEAR	MONTH	DAY

PARAMETER		QUANTITY (KG/DAY)				CONCENTRATION (MG/L)				FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS		AVERAGE	MAXIMUM	UNITS			
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
PH	REPORTED						3.1				
	PERMIT CONDITION				X	6.0	-	9.0	Std. Units	X	
FLOW	REPORTED						0.050		MGD		
					X					X	

Description and cause of Non Compliance. Outfall 002 - Water Treatment Plant. During routine release the effluent was checked and pH was found to be 3.1 Std. Units. The release was terminated. Cause of pH violation was incomplete mixing of basin contents during neutralization prior to the start of the release due to problems with piping in the system.

NAME OF PRINCIPAL EXECUTIVE OFFICER		TITLE OF OFFICER		DATE		I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE, COMPLETE, AND ACCURATE.		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	
Thurtell, Frank A.		Division Manager QA & Reg. Affairs		813 110 117					
LAST	FIRST	MI	TITLE	YEAR	MONTH	DAY			

084-61-001

PERMITEE NAME:

Omaha Public Power District  
Fort Calhoun Station

NEBRASKA DEPARTMENT OF ENVIRONMENTAL CONTROL  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
NON COMPLIANCE REPORT



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INSTRUCTIONS FOR COMPLETION ARE ON BACK.

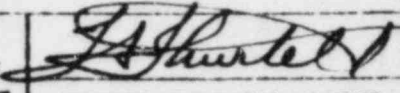
NE 0000418  
PERMIT NUMBER

Date  
Sample  
Taken

813	110	117
YEAR	MONTH	DAY

PARAMETER		QUANTITY (G/DAY)				CONCENTRATION (MG/L)				EXPERIENCE OF ANALYST	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS		AVERAGE	MAXIMUM	UNITS			
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
PH	REPORTED										
	PERMIT CONDITION				X	6.0	-	11.0 9.0	Std. Units	X	
FLOW	REPORTED							0.200	MGD		
					X					X	

Description and cause of Non Compliance. Outfall 002 - Water Treatment Plant. During release the effluent was checked and pH was found to be 11.0 Std. Units. The release was terminated. Cause of violation was incomplete mixing of basin contents during neutralization prior to the start of the release due to problems with piping in the system.

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF OFFICER	DATE	I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE, COMPLETE, AND ACCURATE.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
Thurtell, Frank A.	Division Manager QA & Reg. Affairs	813 110 212		
LAST FIRST MI	TITLE	YEAR MONTH DAY		

084-61-001



PERMITEE NAME:

Omaha Public Power District  
Fort Calhoun Station

NEBRASKA DEPARTMENT OF ENVIRONMENTAL CONTROL  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
NON COMPLIANCE REPORT



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TEST RESULTS FROM ANY EFFLUENT SAMPLE EXCEEDS  
THE LIMITS IN YOUR NPDES DISCHARGE PERMIT.

INSTRUCTIONS FOR COMPLETION ARE ON BACK.

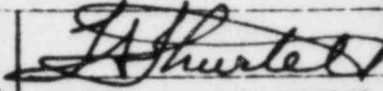
NE 0000418  
PERMIT NUMBER

Date  
Sample  
Taken

8	3	1	1	0	1	1	9
YEAR		MONTH		DAY			

PARAMETER		QUANTITY (G/DAY)				CONCENTRATION (MG/L)				FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS		AVERAGE	MAXIMUM	UNITS			
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
PH	REPORTED						11.5				
	PERMIT CONDITION				X	6.0	-	9.0	Std. Units	X	
FLOW	REPORTED						0.562	MGD			
					X				X		

Description and cause of Non Compliance. Outfall 002 - Water Treatment Plant. The basin contents were being pumped out to allow contractor to begin repairs on the valves and piping throughout the system. There was incomplete mixing of basin contents during neutralization prior to the release due to problems with the piping in the system.

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF OFFICER	DATE	I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE, COMPLETE, AND ACCURATE.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
Thurtell, Frank A.	Division Manager QA & Reg. Affairs	8   3   1   0   2   4		
LAST FIRST MI	TITLE	YEAR MONTH DAY		

084-61-001

PERMITEE NAME:

Omaha Public Power District  
Fort Calhoun Station

NEBRASKA DEPARTMENT OF ENVIRONMENTAL CONTROL  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
NON COMPLIANCE REPORT



THIS REPORT MUST BE FILED WHEN THE LABORATORY  
TEST RESULTS FROM ANY EFFLUENT SAMPLE EXCEEDS  
THE LIMITS IN YOUR NPDES DISCHARGE PERMIT.

INSTRUCTIONS FOR COMPLETION ARE ON BACK.

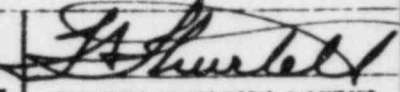
NE 0000418  
PERMIT NUMBER

Date  
Sample  
Taken

8	1	3	1	1	0	2	1	0
YEAR			MONTH			DAY		

PARAMETER		QUANTITY (MG/DAY)				CONCENTRATION (MG/L)				FREQUENCY OF ANALYSIS	SAMPLE TYPE
			AVERAGE	MAXIMUM	UNITS		AVERAGE	MAXIMUM	UNITS		
	REPORTED										
	PERMIT CONDITION					X				X	
	REPORTED										
	PERMIT CONDITION					X				X	
	REPORTED										
	PERMIT CONDITION					X				X	
PH	REPORTED							11.9	Std. Units		
	PERMIT CONDITION					X	6.0	9.0		X	
FLOW	REPORTED							0.303	MGD		
						X				X	

Description and cause of Non Compliance: Outfall 002 - Water Treatment Plant. Basin contents were being pumped out for contractor to continue repair work on the system. Recirculation system for mixing and neutralization was out of service due to repair work in progress.

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF OFFICER	DATE	I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE, COMPLETE, AND ACCURATE.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
Thurtell, Frank A.	Division Manager QA & Reg. Affairs	8 13 11 0 21 5		
LAST FIRST MI	TITLE	YEAR MONTH DAY		

084-61-001

PERMITEE NAME:

Omaha Public Power District  
Fort Calhoun Station

NEBRASKA DEPARTMENT OF ENVIRONMENTAL CONTROL  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
NON COMPLIANCE REPORT



THIS REPORT MUST BE FILED WHEN THE LABORATORY TEST RESULTS FROM ANY EFFLUENT SAMPLE EXCEEDS THE LIMITS IN YOUR NPDES DISCHARGE PERMIT.

INSTRUCTIONS FOR COMPLETION ARE ON BACK.

NE 0000418  
PERMIT NUMBER

Date  
Sample  
Taken

813	11	02	11
YEAR	MONTH	DAY	

PARAMETER		QUANTITY (LBS/DAY)				CONCENTRATION (MG/L)				CONFIDENCE OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS		AVERAGE	MAXIMUM	UNITS			
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
PH	REPORTED						11.79				
	PERMIT CONDITION				X	6.0	-	9.0	Std. Units	X	
FLOW	REPORTED						0.109	MGE			
					X					X	

Description and  
cause of  
Non Compliance.

Outfall 002 - Water Treatment Plant. Basin contents were being pumped out for contractor to continue repair work on the system. Recirculation system for mixing and neutralization was out of service due to repair work in progress.

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF OFFICER			DATE			I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE, COMPLETE, AND ACCURATE.			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
Thurtell, Frank A.			Division Manager QA & Reg. Affairs			813 11 02 16								
LAST	FIRST	MI	TITLE			YEAR	MONTH	DAY						

034-61-001



PERMITTEE NAME:

Omaha Public Power District  
Fort Calhoun Station

NEBRASKA DEPARTMENT OF ENVIRONMENTAL CONTROL  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
NON COMPLIANCE REPORT



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THE LIMITS IN YOUR NPDES DISCHARGE PERMIT.

INSTRUCTIONS FOR COMPLETION ARE ON BACK.

No. 0000418  
PERMIT NUMBER

Date  
Sample  
Taken

8	1	3
YEAR	MONTH	DAY

PARAMETER		QUANTITY (RD/DAY)				CONCENTRATION (CM/L)				FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS		AVERAGE	MAXIMUM	UNITS			
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
pH	REPORTED						2.2				
	PERMIT CONDITION				X	6.0	-	9.0	Std. Units	X	
FLOW	REPORTED						0.284		MGD		
					X					X	

Description and cause of Non Compliance. Outfall 002 - Water Treatment Plant. Recirculation system for mixing and neutralization of basin contents was out of service due to repair work in progress.

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF OFFICER		DATE			I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE, COMPLETE, AND ACCURATE.		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	
Thurtell, Frank A.			Division Manager QA & Reg. Affairs		8/3 1/10 2/18						
LAST	FIRST	MI	TITLE		YEAR	MONTH	DAY				

084-61-001

PERMITTEE NAME:

Omaha Public Power District  
Fort Calhoun Station

NEBRASKA DEPARTMENT OF ENVIRONMENTAL CONTROL  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
NON COMPLIANCE REPORT



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INSTRUCTIONS FOR COMPLETION ARE ON BACK.

100-19-780  
086-61-001

NE. 0000418  
PERMIT NUMBER

Date  
Sample  
Taken

813	110	215
YEAR	MONTH	DAY

PARAMETER		QUANTITY (MG/DAY)				CONCENTRATION (MG/L)				EFFICIENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS		AVERAGE	MAXIMUM	UNITS			
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
	REPORTED										
	PERMIT CONDITION				X				X		
pH	REPORTED						10.9				
	PERMIT CONDITION				X	6.0	-	9.0	Std. Units	X	
FLOW	REPORTED						0.127				
					X			MGD		X	

Description and cause of Non Compliance. Outfall 002 - Water Treatment Plant. Basin contents were being pumped out for continued repair work on the system. The recirculation system for mixing and neutralization was out of service due to repair work in progress.

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF OFFICER			DATE			I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE, COMPLETE, AND ACCURATE.			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
Thurtell, Frank A.			Division Manager QA & Reg. Affairs			813 110 218								
LAST	FIRST	MI	TITLE			YEAR	MONTH	DAY						