

Allen Steam Station 253 Plant Allen Rd. Belmont, NC 28012 704 829-2350 704 829-2370 (fax)

October 15, 2014

Mr. Jeff Poupart North Carolina Division of Water Resources NPDES Wastewater Unit 1617 Mail Service Center Raleigh NC 27699-1617

Subject: Duke Energy Carolinas LLC – NPDES Permit Application

Allen Steam Station - #NC0004979

Dear: Mr. Poupart:

Duke Energy Carolinas, LLC request the subject permit be renewed and issued. The above referenced permit expires on May 31, 2015. As mandated by North Carolina Administrative Code 15A NCAC 2 H.0105 (e), this permit application for renewal is being submitted at least 180 days prior to the expiration of the permit.

Please find enclosed in triplicate, the renewal application, which includes the following items:

EPA Form 1
EPA Form 2C
Site Maps
Water Flow Diagrams
Supplemental Information
Balanced and Indigenous Population Report (316 a)
Alternate schedule Request for 316 (b)
Fish Tissue Monitoring
Metals Sampling in the Vicinity of Ash Basins
Seep Information
Groundwater Information

Duke Energy Carolinas, LLC requests notification that this application is complete.

As required by Part A (15) of the current NPDES permit Duke Energy request that the 316 (a) thermal variance be continued through to the next permit. The attached BIP report continues to indicate that Lake Wylie supports a balanced and indigenous population of fish and macro-invertebrates. The BIP report also addresses all four requirements of the 1988 Kaplan Memo. Therefore, supporting the request for renewal of the thermal variance.

The following monitoring reductions are requested at Outfall 002 based on historical monitoring data.

- Total Beryllium should be removed from the list of required sampling
- All parameters that are required to be monitored monthly should be reduced to quarterly
- All parameters that are required to be monitored for quarterly should be reduced to semi annual

The following monitoring reductions are requested at Outfall 005 based on historical monitoring data.

All parameters that are required to be monitored for weekly should be reduced to monthly

Sincerely,

Éric Matthews

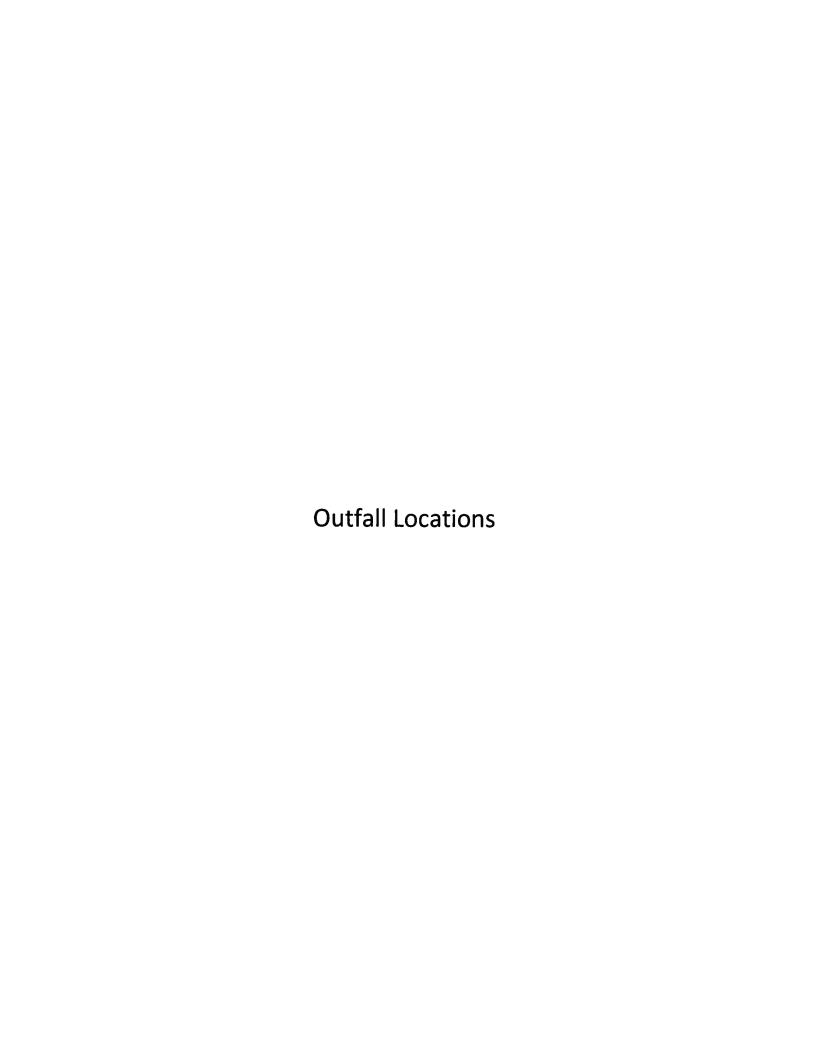
General Manager II

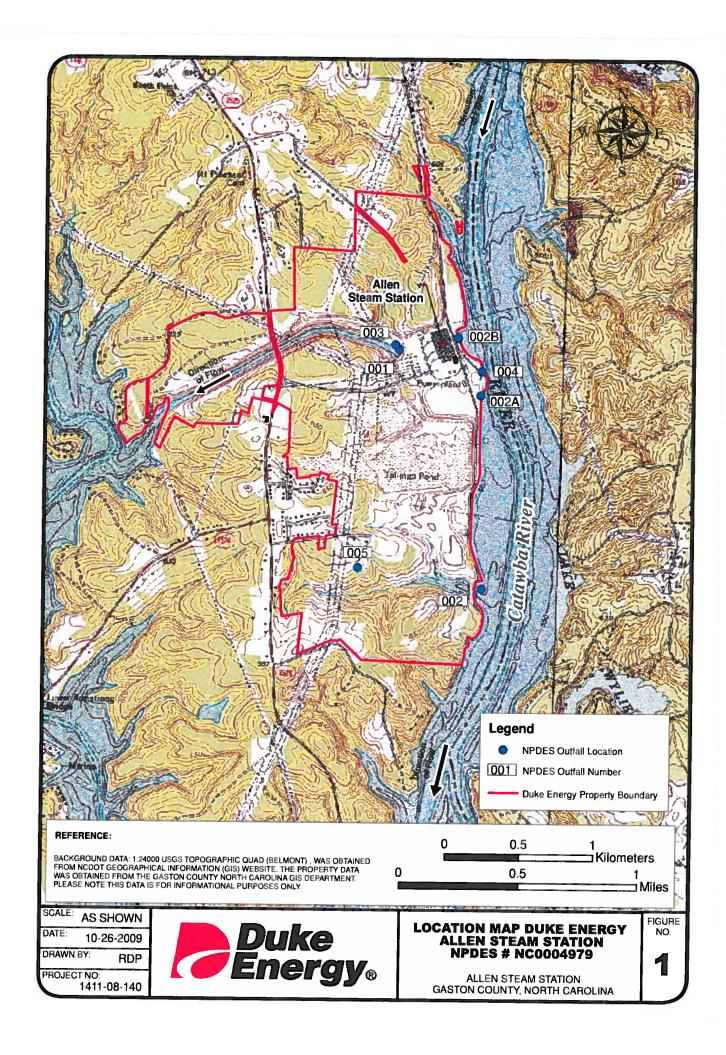
Regulated Fossil Stations

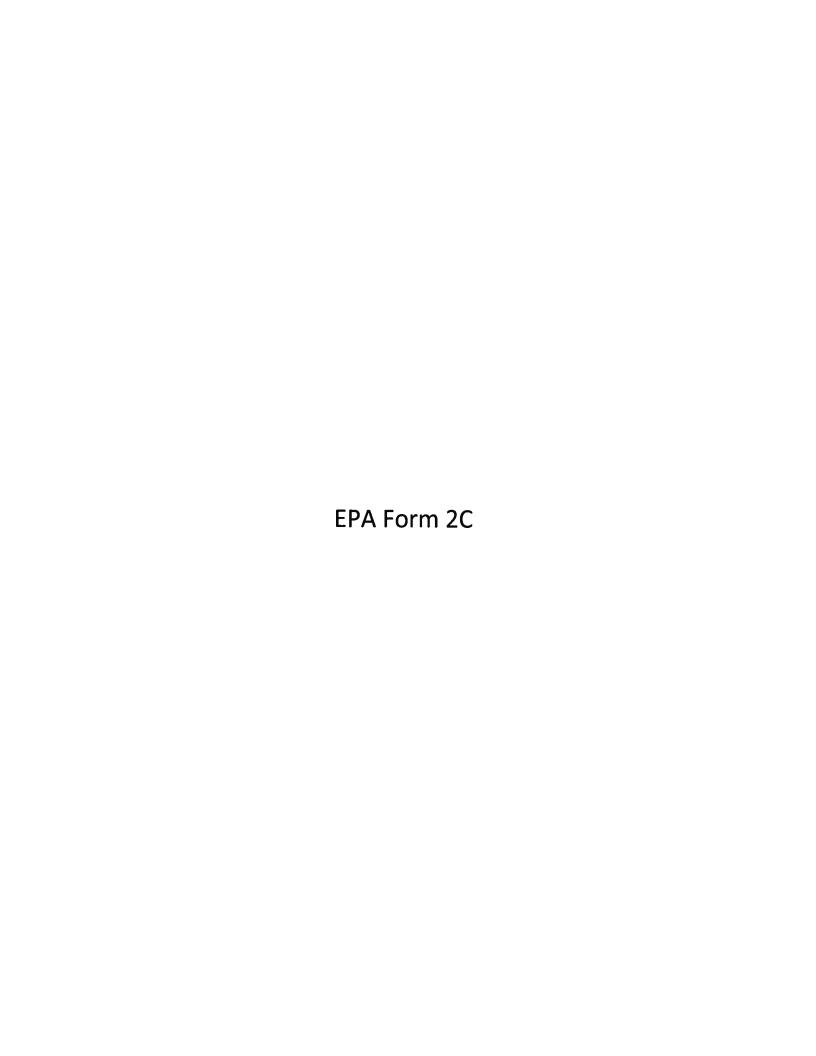


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FORM	OFDA		100		PROTECT	ION AGENCY	I. EPA I D. NUMBER			
1 GENERAL	\$EPA	Co	visolid	eted P	ermits Proc		F NC0004979		13	TA C D
LABE	LITEMS				ALC: U.S.	THE RESIDENCE OF THE PARTY OF T	GENERAL INSTRU		S	
I EPAID	NUMBER						If a preprinted label has been designated space. Review the information is incorrect, cross through it and entitle.	ation o	erefully correct	if any of it
H FACILITY	YNAME	PLEASE	E PLA	CE LA	BEL IN THI	S SPACE	appropriate fill-in area below Also, if is absent (the area to the left of information that should appear), plea	the lat	el spe	ce lists the
V FACILITY ADDRESS	Y MAILING IS						fill-in area(s) below if the tabel is oneed not complete items I, III, V, a must be completed regardless). Con	nd VI i	e and o except sil item:	VI-8 which
VI. FACILITY	LOCATION						has been provided. Refer to the insidescriptions and for the legal authorities data is collected.	truction rigation	s for d s unde	etailed item r which this
II. POLLUTAN	CHARACTERIS	TICS					Casa is collected	100	-70	
Annual ruis to.	m and the supple o" to each questic	emental form listed in the same	inthesi: f these	s follo: forms	wing the qu i. You may faced term	estion Mark "X" in the box in answer "no" if your activity is	the EPA. If you answer "yes" to an the third column if the supplement excluded from permit requirements	del for	m is a Section	tiached if n C of the
	SPECIFIC QU	JESTIONS	YES		FORM ATTACHED	SPECIFI	C QUESTIONS	YES	MO NO	FORM ATTACHED
		ned treatment works which ers of the U.S.? (FORM 2A)	10	X	18	I include a concentrated	ty (either existing or proposed) of animal feeding operation or cition feelilty which results in a the U.S.? (FORM 2B)	19	X	ATTACHED
	he U.S. other tha	ntly results in discharges to in those described in A or B	X	n	×	D is this a proposed facility	y (other than those described in A esuit in a discharge to waters of		X	
	ill this facility t wastes? (FORM	rest, store, or dispose of 3)		×		municipal effluent be containing within one	ject at this facility industrial or slow the lowermost stratum quarter mile of the well bore, drinking water? (FORM 4)	23	×	ग्र
or other flu connection v inject fluids	rds which are with conventional used for enhance	s facility any produced water brought to the surface in oil or natural gas production, ed recovery of oil or natural age of liquid hydrocarbons?	in it	×	8	H Do you or will you inject processes such as mining solution mining of mine	at this facility fluids for special got suffur by the Frasch process, rais, in situ combustion of fossil termal energy? (FORM 4)	31	×	20
of the 28 ind which will p	ustrial categories otentially emit 10	tionary source which is one listed in the instructions and 30 tons per year of any air Clean Air Act and may affect		×	\$10,1427	NOT one of the 28 in instructions and which v	sed stationary source which is dustrial categories listed in the will potentially emit 250 tons per regulated under the Clean Air Act	-	×	*
		area? (FORM 5)	40	41	Q	and may affect or be I (FORM 5)	ocated in an attainment area?	43	44	4
III. NAME OF	100	m Station	-	П	ПТ			11		
1 SKIP A.	llen Steam	m Station								
V. FACILITY	CONTACT									
Stowe,		A NAME & TITLE (last, ad Environmenta		_	esion	11	8 PHONE (area code & ms.) (704) 382-4309	5		
V. FACILTY MA	ILING ADDRESS		0.00	_				TVE		
	x 1006,	A STREET OR P. Mail Code EC13K		T	111	111111				
18		B. CITY OR TOWN				C STATE	D. ZIP CODE			
Charlo	tte			П			28201			
I. FACILITY	OCATION				•					
4	A STR ant Allen	EET, ROUTE NO OR OTHE Road		CIFIC	IDENTIFIE	R				
Gaston	111	B. COUNTY	NAME	1						
•		C. CITY OR TOWN			1000	D. STATE	E ZIP CODE F. COUNTY CO	ODE /	f know	ed I
Belmon					111		8012			

VII. SIC CODES (4-digit, in order of priority) A FIRST		B CECOMB
7 4911 Electric Services	[specify]	B. SECOND
H W	/	
C. THIRD	(LX C JANOSHA ()	D. FOURTH
(specify)	E (specify)	
2 14 - 4		
VIII. OPERATOR INFORMATION		
G T T T T T T T T T T T T T T T T T T T	A. NAME	9.1s the name listed in Item
a Duke Energy Carolinas, LLC	(Attention: Allen Stowe)	VIII-A also the owner?
15 18		8 e
	nter the appropriate letter into the answer bax if "Other" speci	fi.) D. PHONE (area code & no.)
F = FEDERAL S = STATE M = PUBLIC (other)	than federal or state) D (specify) Electric Utility	
P = PRIVATE O = OTHER (specif)		A (704) 382-4309
E CYPETT O	nno nov	10 0 + 10 10 21 22 - 26
E, STREET O	KP,0.80X	
P.O. Box 1006, Mail Code ECI	3k ' ' ' ' ' ' ' ' ' ' ' ' ' '	
F. CITY OR	TOWN G. STA	TE H. ZIP CODE IIX INDIAN LAND
8 Charlotte	NC	Is the facility located on Indian lands?
13 14	110	128201 DYES ZINO
X. EXISTING ENVIRONMENTAL PERMITS		100
A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Source	
a N NC0004979		
9 N NC0004979	9 P	
B UIC (Underground Injection of Fluids)	20 14 16 17 14	THER (specifi)
9 U		(specify) Air Permit/General Stormwater
es vs sr vs C. RCRA (Hazardous Waster)	20 19 10 17 10	7
		HER (specify)
9 R NCD043678937	9 WQ0000452/36-12	(uperfy) Visitfibution of Residual Solids Permit/Industrial Landfill Permit
99 16 17 99	20 19 19 17 lg	D Letwice trait Parintitit Actual:
XI MAP		
		daries. The map must show the outline of the facility, the ment, storage, or disposal facilities, and each well where it
injects fluids underground. include all springs, rivers, a	nd other surface water bodies in the map area. See instru	ment, storage, or dispose ractities, and each well where it zions for precise requirements.
XII. NATURE OF BUSINESS (provide a brief description		
Coal fired electric generation	TO THE REPORT OF THE PARTY OF T	CARLET TANKS IN THE COLUMN TO SERVICE AND ADDRESS OF THE PARTY OF THE
KIII. CERTIFICATION (see instructions)		
KIII. CERTIFICATION (see instructions) I certify under penalty of law that I have personalty ex-	emined and are familiar with the followation submitted to	this application and all attachments and that, based on my lieve that the information is true, accurate, and complete i mortsonment.
KIII. CERTIFICATION (see instructions) I certify under peneity of law that I have personally extinquiry of those persons immediately responsible for a am ewere that there are significant peneities for submit in NAME & OFFICIAL TITLE (have or pent)	amined and am familiar with the information submitted in blaining the information contained in the application, I be ting false information including the possibility of fine and in	lieve that the information is true, accurate, and complete I reprisonment.
KIII. CERTIFICATION (see instructions) I certify under penelty of lew that I have personally extending of those persons immediately responsible for a sem aware that there are significant penelties for submit A. NAME & OFFICIAL TITLE (type or print) STIC Matthews - General Management	amined and am familiar with the information submitted in blaining the information contained in the application, I be ting false information including the possibility of fine and in	Kara Mas the telescolor to take an accust and
KIII. CERTIFICATION (see instructions) I certify under penelty of law that I have personally extending of those persons immediately responsible for a am aware that there are significant penelties for submit A. NAME & OFFICIAL TITLE (type or print) STIC Matthews - General Manage	amined and am familiar with the information submitted in blaining the information contained in the application, I be ting false information including the possibility of fine and in	lieve that the information is true, accurate, and complete I imprisonment.
XIII. CERTIFICATION (see instructions) I certify under peneity of law that I have personally extinuity of those persons immediately exponsible for a am aware that there are significant peneities for submit A. NAME & OFFICIAL TITLE (type or print) Stric Matthews - General Manag Regulated Fossil Stations	amined and am familiar with the information submitted in blaining the information contained in the application, I be ting false information including the possibility of fine and in	leve that the information is true, accurate, and complete I mprisonment. C. DATE SIGNED
XIII. CERTIFICATION (see instructions) I certify under peneity of law that I have personally exclinquiry of those persons immediately responsible for a am aware that there are significant peneities for submit A. NAME & OFFICIAL TITLE (type or prest) Stric Matthews - General Manag Regulated Fossil Stations COMMENTS FOR OFFICIAL USE ONLY	amined and am familiar with the information submitted in blaining the information contained in the application, I be ting false information including the possibility of fine and in	leve that the information is true, accurate, and complete I mprisonment. C. DATE SIGNED
KIII. CERTIFICATION (see instructions) I certify under peneity of law that I have personally exclinquiry of those persons immediately responsible for a am aware that there are significant peneities for submit A. NAME & OFFICIAL TITLE (type or print) Eric Matthews - General Manag Regulated Fossil Stations COMMENTS FOR OFFICIAL USE ONLY	amined and am familiar with the information submitted in blaining the information contained in the application, I be ting false information including the possibility of fine and in	leve that the information is true, accurate, and complete I mprisonment. C. DATE SIGNED
XIII. CERTIFICATION (see instructions) I certify under peneity of law that I have personally extinquiry of those persons immediately responsible for a am aware that there are significant peneities for submit A. NAME & OFFICIAL TITLE (type or print) Stric Matthews - General Manag Regulated Fossil Stations COMMENTS FOR OFFICIAL USE ONLY	amined and am familiar with the information submitted in blaining the information contained in the application, I be ting false information including the possibility of fine and in	leve that the information is true, accurate, and complete I mprisonment. C. DATE SIGNED







EPA I D. NUMBER (copy from Item 1 of Form I)

Please print or type in the unshaded areas only

NC0004979

Form Approved OMB No. 2040-0088 Approval expires 3-31-98

FORM 2C NPDES



U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water

A. OUTFALL NUMBER	War Taylor	B LATITUDE		C	LONGITUD		
(list)	1 DEG	2 MIN.	3. SEC	1. DEG	2 MIN	3.8EC.	D. RECEIVING WATER (nume)
001	35	11	22	81	00	44	South Fork River
002	35	10	30	81	00	20	Catawba River
002A/002B	35/35	11/11	13/25	81/81	00/00	21/28	Catawba River (Intermittent)
003	35	11	23	81	00	45	South Fork River
004/005	35/35	11/09	13/60	81/81	00/01	21/22	Catawba River/Internal Outfall

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in item B. Construct a water belance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water belance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation, and (3) The treatment received by the wastewater. Continue on additional sheets if necessary

1. OUT-	2. OPERATION(S) CO	NTRIBUTING FLOW	3. TREATMENT		
FALL NO. (/is/)	II. OPERATION (ISI)	b. AVERAGE FLOW (include units)	a DESCRIPTION	b. LIST CO	DES FROM £ 2C-1
001	Condenser Cooling Water	649.4 MGD	Screen discharge to surface water	17	
	(Once through non-contect)			4A	
	includes intake screen backwash				
002	Ash besin discharge	18.6 MGD	Chemical coagulation, settling, neutralization,	20	2 K
			ion exchange, surface water discharge	10	
				2.3	
				48	
002A	Emergency Overflow of yard drain	Intermittent	surface water discharge	48	
002B	#ump #1 (002A) and sunp #2 (002B)	10.	,		
	See supplemental information				
003	Miscellaneous once through	4.5 NGD	aurface water discharge	48	
	non-contact cooling water				
004	Miscellaneous once through	6.5 MGD	Surface water discharge	4A	
	non-contact cooling water		surface water discharge	4.8	
005	Plue Ges Desulfurization	0.2 HGD	Internal outfall, discharges to ash basin	12	21.
	Wastewater Treatment System			20	30
				20	5C
				38	1

CONTINUED FROM THE FRONT C. Except for storm runoff, leaks, or spills, are any of the discharges described in items II-A or B intermittent or seasonal? YES (complete the following table) NO (go to Section III) 3 FREQUENCY 4 FLOW a. DAYS PER B TOTAL VOLUME 2 OPERATION(s) CONTRIBUTING FLOW (flat) a. FLOW RATE (in migd) WEEK D. MONTHS PER YEAR (specify with units) 1 OUTFALL NUMBER (Int) 1. LONG TERM 1 LONG TERM 2 MAXIMUM C DURATION 2 MAXIMUM avenace specific average **AVERAGE** DAILY AVERAGE DAILY (or days) 002A Emergency overflow of yard drain sump #1 (see supplmental information) See Supple Supple-Supple Supplental mental mental Informat-Informat -Informat -Informat ion ion -ion Emergency overflow of yard drain sump #2 (see supplmental information) 002B See CAA Supple-mental Supple-mental Informat-Supple-mental Informat-Supplemental Informat . Informat ion ion -ion III PRODUCTION A. Does an effluent guideline Emitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility? YES (complete liem III-B) NO (go to Section IV) B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)? YES (complete liem ill-C) NO (go to Section II) C. If you answered "yes" to Item III-B. list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls. 1. AVERAGE DAILY PRODUCTION 2. AFFECTED OUTFALLS c. OPERATION, PRODUCT, MATERIAL, ETC a. QUANTITY PER DAY **b. UNITS OF MEASURE** (lut outfall numbers) (specifi) NA NA NA NA IV IMPROVEMENTS A Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations court orders, and grant or loan conditions. YES (complete the following table) NO (go to Item IV-B) 1. IDENTIFICATION OF CONDITION 2. AFFECTED OUTFALLS 4. FINAL COMPLIANCE DATE 3. BRIEF DESCRIPTION OF PROJECT AGREEMENT, ETC. a. NO D. SOURCE OF DISCHARGE a REQUIRED b. PROJECTED B OPTIONAL. You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I D. NUMBER (copy from Item 1 of Form 1)

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

NC0004987

	are included on separate sheets numbers utants listed in Table 2c-3 of the instruction	one which you know or how remain to	believe is discharged or may be dischar
1. POLLUTANT	briefly describe the reasons you believe SOURCE	t to be present and report any analytica 1. POLLUTANT	data in your possession.
Supplemental Information,		Ici Otto iciivi	E. GOUNGE
le 5.1 (attached) for plete list	1		
	1		1
			Į.
AT A STATE OF THE	The same of the sa		
DTENTIAL DISCHARGES NOT COVERE			TEACONO LE LE LEVILLE
pollutant listed in Item V-C a substance	or a component of a substance which you	currently use or manufacture as an inte	rmediate or final product or byproduct?
YES (list all such pullulants bekn	*) [K] K	O (go to Item VI-B)	

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DAT	A SILE OF BUILDING BUILDING		
Do you have any knowledge or reason to be	ieve that any biological test for acute or chronic tox ars?	city has been made on any of your di	scharges or on a receiving water in
YES (identify the test(s) and de	scribe their purpines believ)	NO (go to Section 1711)	
Quarterly analysis of Ceriod	aphnia Dubia chronic testing per o	current permit requiremen	nts on Outfall 002
VIII CONTRACT AND VOIC INFORMATION			
VIII. CONTRACT ANALYSIS INFORMATION		MULTINESS OF STREET	
	performed by a contract laboratory or consulting fire of telephone number of, and pollutants analyzed by, on below)	n? NO (go to Section (A))	
A. NAME	B. ADDRESS	C. TELEPHONE (area cule & no.)	D. POLLUTANTS ANALYZED
Shealy Environmental Services, Inc.	106 Vantage Point Drive West Columbia, SC 29172	803-791-9700	BOD, color, sulfide, fecal coliform, surfactants, PCBs, cyanide, phenol, volatiles, semi-volatiles, mercury, acid compunds, sulfite, pesticides
SGS Environmental Services, Inc.	5500 Business Dr. Wilmington, NC 28405	910-350-1903	Dioxin
GEL Laboratories LLC	2040 Savage Road Charleston, SC 29417	843-556-8171	Radiological
Duke Energy Analytical Laboratory	13339 Hagers Ferry Road	980-875-5275	Metals,COD.TRN,oil & grease,total phosphorous, nitrate-nitrite,TSS.TOC, bromids, sulfate,fluoride
IX. CERTIFICATION			
I certify under penalty of law that this docum qualified personnel properly gather and eve directly responsible for gathering the informa are significant penalties for submitting false is	ent and all attachments were prepared under my di duate the information submitted. Based on my ind laton, the information submitted is, to the best of my information, including the possibility of fine and impi	fuiry of the person or persons who is knowledge and belief this account.	neares the mater of these series
A. NAME & OFFICIAL TITLE (type or print)		B. PHONE NO. (area code of ne.)	
	r II, Regulated Fossil Stations	(704) 829-2400	
C. SIGNATURE		D. DATE SIGNED 10/14/2014	
FD4 F 9549 40 10 401		The state of the s	

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

Chlorine, 24959-67-9) AND CAS NO V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) SEE INSTRUCTIONS 6984-48-8) Feca ART B - Mark "X" in column 2a for each pollutant you know or have reason to believe is present. Mark "X" in column 2b for each pollutant you believe to be absent. If you mark column 2a for any Demand (COD)
Total Organic Fluoride otal Residual Bromide Temperature POLLUTANT mmer) inter) Temperature Ammonia (as N) Total Suspende arbon (TOC) Chemical Oxygen Biochemical Oxygen ART A - You must provide the results of at least one analysis for every pollutant in this table. POLLUTANT and (BCD) for additional details and requirements. for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions pollutant which is limited either directly or indirectly but expressly in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants B. pre-× × × × × × Believed MARK "X" a. MAXIMUM DAILY VALUE (1) Concentration MUMINIM VALUE VALUE VALUE a. MAXIMUM DAILY VALUE 1) Concentration 0.050 0.213 0.054 8.00 1.00 1.00 6 2.3 5.0 23 784 (2) Mass MUMIXAM 6549.2 6549.2 32745.8 130983.1 15063.1 13098.3 1395.0 327.5 353.7 N/A N/A MINIMUM 6. MAXIMUM 30 DAY VALUE VALUE VALUE b. MAXIMUM 30 DAY VALUE VALUE Concentration (if available) EFFLUENT 2. EFFLUENT 736 ((2) Mass MUMIXAM (2) Mass Complete one table for each outfall. See instructions for additional details N/A N/A C. LONG TERM AVG. VALUE VALUE VALUE VALUE c. LONG TERM AVG. VALUE (1) Concentration 1) Concentration 388 (2) Mass (2) Mass ΚĀ N/A ANALYSES d. NO. OF ANALYSES NC0004979 . NO. OF 268 202 730 tration a. Concentration a. Concen-STANDARD UNITS DEGREES CELSIUS DEGREES CELSIUS Std. Units /100 ml mg/l MPN μg mg/l MGD mg/l mg/ mg/ <u>س</u>و/ mg/l STINU . UNITS 0 . Mass Mass lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day N/A N/A N/A a. LONG TERM AVG. VALUE VALUE VALUE VALUE a. LONG TERM AVG. VALUE OUTFALL NO. 1) Concentration Allen Steam Station 0.243 0.050 0.033 9.00 1.00 1.00 INTAKE (optional) 4.0 5 8.0 2.3 8 INTAKE (optional) 388 7.56 001 788.6250315 162.268525 107.0972265 3245.3705 3245.3705 25962.964 7464.35215 64907.41 12981.482 N/A N/A ANALYSES ANALYSES NO. OF NO. . 유

(7439-98-7)
v. Manganese
Total
(7439-96-5)
w. Tin, Total
(7440-31-5) m. Suffite (as SO3) (14265-45-3) n. Surfactants k. Suffate (as SO4) (14808-79-8) . Sulfide (as S) (7439-95-4) u. Molybdeni Total Total (7429-90-5) D. Barlum, Total (7440-38-3) Q. Boron, Total (7440-42-8) C. Cobast, Total (7440-48-4) S. Iron, Total (7439-89-6) : Magnesium Total 226, Total I. Phosphorous (as P), Total (7723-14-0) J. Kadioactivity g. Nitrogen, Total Organic (as N) h. Oil and 1. POLLUTANT 2. MARK "X" AND CAS NO. Believed a. M 0,0 × × × × × × × × × a.pre-× × × × × × × × × × × × b.aba. MAXIMUM DAILY VALUE ٨ ٨ 0.0010 0.021 0.010 0.068 2,440 2.19 2,350 0.001 0.064 0.028 0.028 0.35 2.00 5.00 0.28 1.20 5.4 .. 8 1.00 5.00 5.00 ٨ ٨ ٨ ٨ 14342.7 15390.5 15979.9 13098.3 35365,4 445.3 2292.2 32745.8 137.5 419.1 7859.0 65.5 1833.8 6.5 6.5 183.4 Š 183.4 Ķ Ķ Š 3. EFFLUENT
b. MAXIMUM 30 DAY VALUE
(if available)
(1) Concentration (2) Mass EPA I.D. NUMBER (copy from Item 1 of Form 1) 0.068 0.001 0.064 0.028 2.19 2.35 2,44 5.4 33193.4 418.0 13461.8 14445.3 393.4 6.1 4998.5 172.1 N/A N/A ¥, N/A C. LONG TERM AVG. VALUE (if available) Concentration 0.066 0.032 0.024 0.001 2.14 1.52 1.49 5.2 (2) Mass OUTFALL NUMBER ٨ 214.2 6945.1 4933.0 4835.6 16875.9 3.2 103.9 77.9 N/A N/A N/A N/A d. NO. OF ANALYSES N N N N N N 2 tration Concenmg/l μg mg/l mg/l mg/l μg mg/l mg/l mg/l mg/l mg/ mg/l pCi/ PC// mg/l mg/1 DC/I mg/l mg/l mg/i 4. UNITS lb/Day ib/Uay lb/Day . Mass lb/Day ІЬ/Оау lb/Day ІЬ/Оау lb/Day lb/Day lb/Day lb/Uay ib/Day lb/Uay lb/Uay lb/Uay lb/Day lb/Day N/A N/A Š N/A Allen Steam Station
5. INTAKE (optional)
a. LONG TERM AVG. VALUE 0.0010 0.030 0.119 0.010 0.001 0.852 2.21 0.056 0.022 0.022 0.05 1.080 2.00 5.00 0.19 1.40 4.9 1.00 2.00 5.00 5.00 ٨ 386.1990895 7172.268805 97.361115 32.453705 3.2453705 3505.00014 3.2453705 2765.055666 162.268525 15902.31545 81.740748 71.398151 616.620395 6490.741 4543.5187 71.398151 16226.8525 Š N/A N/A Š. b. NO. OF ANALYSES -_ -

EPA Form 3510-2C (Rev

2-85

PAGE V-2

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

CONTINUED FROM PAGE 3 OF FORM 2-C

Allen Steam Station
PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals regarded and total phases.

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Bromide (74-83-9) 21V. Methyl ethylene (75-35-4) 17V. 1,2-Dichloroethane (107-06-2) 16V. 1,1-Dichloro-(75-71-8) 14V. 1,1-Dichloro-ethane (75-34-3) 15V. 1,2-Dichloro-18V. 1,3-Dichloroethylvinyl Ether (110-75-8) (75-00-3) 10V. 2-Chloro-(542-88-1) 5V. Bromoform 0V. Мету 100-41-4) 9V. Ethylbenzene 75-27-4) (124-48-1) 9V. Chloroethane (75-25-2) 6V. Carbon 3V. Dichloro-12V. Dichloro 1V. Chloroform 108-90-7) W. Chlorodi-(56-23-5) CONTINUED FROM PAGE V-3 tloride (74-87-3) 107-13-1) AND CAS NO. 1. POLLUTANT opane (78-87-5) omomethane etrachloride V. Bis (Chlore 71-43-2) V. Benzene Acrylonitrile GC/MS FRACTION - VOLATILE nethyl) Ether 107-02-8) pylene (542-75-6) ememethane B. F**Q** 2. MARK "X" × × × × × × b.prosent Believed sent × COMPOUNDS 5.0 a. MAXIMUM DAILY VALUE 2.0 2.0 2.0 2.0 2.0 20 2.0 2.0 2.0 5.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 5.0 (2) Mass ٨ ٨ ٨ 13,10 13.10 13.10 13.10 13.10 13.10 13.10 13.10 13.10 32.75 13.10 13.10 32.75 13.10 13.10 13.10 13.10 13.10 32.75 13.10 3. EFFLUENT
MAXIMUM 30 DAY VALUE EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER (2) Mass NC0004979 C. LONG TERM AVG. VALUE Concentration (2) Mass 001 d. NO. OF a. Conc ANALYSES tration _ a. Concenl/gu ω_Q ųg/ ٨ ug/i မွ ě é υg/j <u>پو</u> Ę é é é é ø ξ ě ھِ ω<u></u> STINU b. Mass lb/Day a. LONG TERM AVG. VALUE Allen Steam Station 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 5. INTAKE (optional) 2.0 2.0 5.0 2.0 2.0 2.0 2.0 2.0 5.0 5.0 2.0 (2) Mass ٨ ٨ ۸ 6.49 6.49 6.49 6.49 6.49 6.49 6.49 6.49 6.49 6.49 6.49 16.23 6.49 6.49 16.23 6.49 6.49 6.49 6.49 16.23 d. NO. OF ANALYSES --3 _ -+

phenol (87-86-5) 10A. Phenol (79-00-5) 29V. Trichloro-CONTINUED FROM PAGE V-4

1. POLLUTANT 2. MARK "X" (88-75-5) 7A. 4-Nitrophenol phenol (51-28-5) 6A. 2-Nitrophenol Chloride (75-01-4)
GC/MS FRACTION - ACID (75-69-4) 31V. Vinyi (79-34-5) Chloride (75-09-2) 23V. 1,1,2,2-Tetra-108-95-2) Cresol (59-50-7) 9A. Pentachloro-GC/MS FRACTION - VOLATILE 26V. 1,2-Trans 24V. Tetrachloro hlorophenol 1A. 2,4,6-Tri-100-02-7) A. P-Chloro-Mresol (534-52-1) A. 2,4-Dinitro-A. 2,4-Dichloro-8V. 1,1,2-Tri-71-55-6) 156-60-5) ND CAS NO. 4,6-Dinitro-O-5-57-8) hloroethane noroethane 7V. 1,1,1-Tri ichloroethylene 108-88-3) hylene (127-18-4) 5V. Toluene \. 2,4-Dimethylavailable) loroethane inol (105-67-9) anol (120-83-2) × × × × × × Believed b.pre- c.ab sent COMPOUNDS sent COMPOUNDS (continued) a. MAXIMUM DAILY VALUE 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 10 0 8 10 8 2.0 ö 6 ö 8 0 10 (2) Mass ٨ 327.46 65.49 13.10 65.49 65.49 65.49 65.49 65.49 65.49 65.49 65.49 65.49 13.10 13.10 13.10 13.10 13.10 13.10 13.10 13.10 13.10 b. MAXIMUM 30 DAY VALUE (1) Concentration EPA I.D. NUMBER (copy from Item 1 of Form 1) (if available) 3. EFFLUENT (2) Mass NC0004979 (if available)
(1) Concentration c. LONG TERM AVG. OUTFALL NUMBER (2) Mass . VALUE 8 d. NO. OF tration . Concenug/l g/ <u>چ</u> ω ø g/ ų, υQ હ્ ě lgu ě ğ gug/ မွ Į. ě ě હ્ ω φį . UNITS . Mass lb/Day 5. INTAKE (optional)
a. LONG TERM AVG. VALUE ٨ ٨ ٨ Allen Steam Station 2.0 2.0 2.0 2.0 2.0 2.0 2.0 10 2.0 2.0 2.0 ö 0 0 8 0 0 0 0 8 0 (2) Mass ٨ ٨ ٨ 32.45 32,45 162.27 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 6.49 6.49 6.49 6.49 6.49 6.49 6.49 6.49 6.49 6.49 d. NO. OF ANALYSES -------_

benzene (95-50-1) 21B. 1,3-Dichloro-benzene (541-73-1) hexyl) Phthalate (117-81-7) 14B. 4-Bromoethyl) Ether (111-44-4) 128.8is (2-Chloro propyl) Ether (108-60-1) 138. Bis (2-Ethyl-CONTINUED FROM PAGE V-5

1. POLLUTANT | 2. MARK "X" (218-01-9) 198. Dibenzo (a,h) (91-58-7) 17B. 4-Chloro-Phthalate (85-68-7) 16B. 2-Chlorophenyl Phenyl Ether (101-55-3) 158. Butyl Benzyl (111-91-1) 11B. Bis (2-Chlor 10B. Bis (2-Chloro ethoxyl) Methane (205-99-2) 88. Benzo (ghi) (92-87-5) (56-55-3)(208-96-8) 3B. Anthracene (83-32-9) phenyl Phenyl Ether (7005-72-3) Perylene (191-24-2) 96. Benzo (k) Fluoranthene B. 3,4-BenzoiB. Benzo (a) B. Benzidine 120-12-7) SC/MS FRACTION - BASE NEUTRAL COMPOUNDS AND CAS NO. 08. 1,2-Dichloronthracene 8B. Chrysene aphthalone 207-08-9) B. Benzo (a) nthracene oranthene × × × × × × × × × \times × Believed b.pro- c.ab sent sent a. MAXIMUM DAILY VALUE ٨ ٨ ٨ ٨ ٨ ۸ ۸ 100 2.0 2.0 6 10 5 5 10 10 6 0 10 0 0 0 6 0 10 10 10 10 ٨ ٨ ٨ ٨ ٨ ٨ ٨ ٨ ٨ ٨ ٨ 65,49 65,49 65.49 654.92 65.49 65.49 65.49 65.49 65.49 65.49 65.49 65.49 65.49 65,49 65,49 13.10 65,49 65.49 65.49 65.49 13.10 b. MAXIMUM 30 DAY VALUE EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER NC0004979 c. LONG TERM AVG. VALUE 8 d. NO. OF ANALYSES a. Concen-tration l/gu ρ ω<u>g</u> ě l/gu ě l/gu ě ھِ ψĮ ø υg/ ξ υQ ٨ ৰূ ۅۣ ě φ υg ě STIND ō . Mass lb/Day ib/Day lb/Day lb/Day 5. INTAKE (optional)
a. LONG TERM AVG. VALUE Allen Steam Station 2.0 2.0 6 0 0 10 0 6 10 0 6 10 0 10 10 10 히 8 8 0 0 (2) Mass 324.54 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 6.49 6.49 d. NO. OF ANALYSES --

(117-84-0) 30B. 1,2-Diphenyl-hydrazine (as Azo-benzene) (122-66-7) 31B. Fluoranthene (621-64-7) 42B. N-Nitrosodi (62-75-9) (206-44-0) 32B. Fluorene 1. POLLUTANT AND CAS NO. L-Propylamine 18. N-Nitro-19B. Naphthalene 1,2,3-cd) Pyrene (86-73-7) boluene (121-14-2) 28B. 2,6-Dinitro-98-95-3) 91-20-3) 78-59-1) 193-39-5) 7B. Indeno ISB. Hexachloro **ИВ.** Неха-Phthalate (131-11-3) CONTINUED FROM PAGE V-6 0B. Nitrobenzene B. Isophorone yclopentadiene 5B. Hexachlore 38. Hexachloro 6B. Di-N-Buty 258. Dimethy hthelate 24B, Diethy (91-94-1) nlorobutadiene hthalate 7B. 2,4-Dinitro hthalate 38. 3,3-Dichlorodimethylamine nane (67-72-1) 9B. DI-N-Octyl enzidine enzene (106-46-7) uene (606-20-2) quir-× × × × × × × × × × × b.prea. MAXIMUM DAILY VALUE ٨ ٨ ^ ٨ ٨ ٨ 10 10 ö 10 8 0 10 ö 10 0 6 6 10 10 6 0 10 10 6 10 ٨ ٨ ٨ ٨ ٨ ٨ 65.49 65,49 65.49 65.49 65.49 65.49 65,49 65.49 65.49 65.49 65,49 65.49 65.49 65,49 65.49 65,49 65.49 65,49 65,49 65,49 6. MAXIMUM 30 DAY VALUE (1) Concentration EFFLUENT (2) Mass C. LONG TERM AVG. VALUE (2) Mass 001 d. NO. OF ANALYSES a. Concen-tration ğ ě ųg/ ų, υg gu g l/gu υg/ ω υg <u>چ</u> ě ų ě ě ğ ξ ě é ų UNITS . Mass lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day ib/Day lb/Day (b/Day lb/Day Δ 5. INTAKE (optional)
a. LONG TERM AVG. VALUE Allen Steam Station 0 10 ô 0 10 0 10 0 0 0 10 0 0 0 8 10 10 2.0 6 10 10 ٨ ٨ 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32.45 32,45 32,45 32.45 32,45 32.45 32.45 6.49 d. NO. OF ANALYSES 9 -------4 -_ --_

EPA I.D. NUMBER (copy from Item 1 of Form 1)

OUTFALL NUMBER

(72-20-8) 15P. Endrin Aldehyde (7421-93-4) 14P. Endrin (60-57-1) 11P.alpha-Endosulfan (72-54-8) 10P. Dieldrin (120-82-1) GC/MS FRACTI (309-00-2) 2P. alpha-BHC (72-55-9) (319-86-8) 6P. Chlordane 1031-07-8) 3P. Endosutfan 115-29-7) I2P, beta-Endosulfan 9P. 4,4'-DDD 115-29-7) 3P. 4,4'-DDE 50-29-3) SP. delta-BHC (315-85-7) 4P. gamma-BHC (319-84-6) 3P. beta-BHC (85-01-8) 45B. Pyrene CONTINUED FROM PAGE V-7

1. POLLUTANT

2. MARK "X" ulfate 58-89-9) \$6B. 1,2,4-Tri-44B, Phena GC/MS FRACT AND CAS NO. hlorobenzene 86-30-6) 13B. N-Nitro 4,4'-DDT diphenylamine ION - BASE/NEU × × 2. MARK "X" Believed b.pre- c.abaent × × × × **TRAL COMPOUNDS** . MAXIMUM DAILY VALUE 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.25 0.025 0.025 2.0 10 10 ö (2) Mass ٨ (continued) 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16 13.10 65.49 65,49 65.49 0.16 0.16 64 3. EFFLUENT MAXIMUM 30 DAY VALUE EPA I.D. NUMBER (copy from Item 1 of Form 1) (2) Mass NC0004979 C. LONG TERM AVG. VALUE 1) Concentration OUTFALL NUMBER (2) Mass <u>8</u> d. NO. OF a. Conc ANALYSES tration a. Concen-ھِ Ę, υg ě હ્ ğ ē ug/i ø, ug/ ω ųg/ ų lg/ ٦ φ ۅۣ ě ဖွ é 4. UNITS ō lb/Day lb/Day lb/Day lb/Day lb/Day . Mass lb/Day ib/Day lb/Day lb/Day lb/Day lb/Day a. LONG TERM AVG. VALUE ٨ Allen Steam Station 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.25 0.025 5. INTAKE (optional) 2.0 6 6 10 (2) Mass 0.08 0.08 0.08 0.08 0.08 80.0 0.08 0.08 0.08 0.08 0.81 0.08 0.08 0.08 32.45 32.45 0.08 32,45 0.08 6.49 d. NO. OF ANALYSES _

EPA Form 3510-2C (Rev. 2-85)

(11141-16-5) 22P. PCB-1248 (12674-11-2) 25P. Toxaphene (12672-29-6) 23P. PCB-1260 (11097-69-1) 20P. PCB-1221 EPA Form 3510-2C (Rev. 2-85) (53469-21-9) 19P. PCB-1254 (1024-57-3) 18P. PCB-1242 24P. PCB-1016 11096-82-5) 21P. PCB-1232 GC/MS FRACTION - PESTICIDES (continued) CONTINUED FROM PAGE V-8

1. POLLUTANT
2. MARK "X"
AND CAS NO. are Believed 3001-35-2) 11104-28-2) 17P. Heptachlor poxide 2. MARK "X"
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quir- b.pre- c.ab-× a. MAXIMUM DAILY VALUE 0.025 0.025 0.25 0.25 0.25 0.25 0.25 0.25 0.25 (2) Mass 0.16 0.16 1.64 1.64 2 1.64 1.64 64 64 3. EFFLUENT b. MAXIMUM 30 DAY VALUE EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER (if available) (2) Mass NC0004979 (if available)
(1) Concentration C. LONG TERM AVG. VALUE (2) Mass 8 d. NO. OF a. Concen-ANALYSES tration ě <u>ب</u>و υģ ě ۅۣ ě ğ ě ω 4. UNITS b. Mass lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day Allen Steam Station
5. INTAKE (optional)
a. LONG TERM AVG. VALUE 0.025 0.025 0.25 0.25 0.25 0.25 0.25 0.25 0.25 (2) Mass 0.08 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.08 d. NO. OF ANALYSES

PAGE V-9

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of

EPA I.D. NUMBER (copy from Item 1 of Form 1)

24959-67-9) 6964-48-8) AND CAS NO. ART B - Mark "X" in column 2a for each pollutant you know or have reason to believe is present. Mark "X" in column 2b for each pollutant you believe to be absent. If you mark column 2a for any Fluoride this information on separate sheets (use the same format) instead of completing these pages tal Residual V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) SEE INSTRUCTIONS Temperature Chemical Oxygen Ammonia (as N) Total Suspended Total Organic Biochemical Oxygen ART A - You must provide for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions pollutant which is limited either directly or indirectly but expressly in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants (TSS) nd (COD) details and requirements. 2. MARK "X" a.pre × × × a. MAXIMUM DAILY VALUE MUMINIM VALUE VALUE VALUE MAXIMUM DAILY VALUE of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details

2. EFFLUENT

3. INVITS. 0.050 0.16 1.00 308 0.060 25 7.30 2.0 6.0 2.4 2 0 MUNIXAM 28.2 176.1 1285.4 ¥, Š 1056.5 3521.6 352.2 8.8 422.6 10.6 b. MAXIMUM 30 DAY VALUE VALUE MINIMUM VALUE VALUE b. MAXIMUM 30 DAY VALUE σ (2) Mass 0 0 MAXIMUM 0 0 0.0 0.0 N/A N N 0.0 0.0 851.2 0.0 0.0 0.0 0.0 C. LONG TERM AVG. VALUE VALUE C. LONG TERM AVG. VALUE VALUE 0.3 0 0 (2) Mass 0 0 0 0.0 0.0 N/A N/A 0.0 0.0 28.5 0.0 0.0 0.0 0.0 d. NO. ANALYSES ANALYSES d. NO. OF NC0004979 107 25 9 tration a. Concentration DEGREES CELSIUS Std. Units DEGREES CELSIUS /100 ml Concen-Ψ MPN Ψ ag. λ MGD βE ng/ λĝ mg/ φ 3. UNITS b. Mass lb/Day lb/Day lb/Day). Mass lb/Day N/A lb/Day lb/Day lb/Day lb/Day Š lb/Day N/A a. LONG TERM AVG. VALUE VALUE VALUE VALUE 4. INTAKE (optional)
a. LONG TERM AVG. VALUE OUTFALL NO.) Concentration Allen Steam Station **EPA Facility Name** INTAKE (optional) (2) Mass (2) Mass 002 ₹ Š Š 0 0 0 0 ANALYSES b. NO. ANALYSES NO. 읶 읶

CONTINUE ON PAGE V.

J. Nitrogen, Total Organic (as N) h. Oil and Gresse o. Aluminum. Total m. Sulfide (as SO3) (14265-45-3) n. Surfactants x. Sulfate (as SO4) (14808-79-8) . Sulfide (as S) . Phosphorous (as P), Total (7723-14-0) J. Radioactivi 7440-42-8)
7. Cobalt,
7. Cobalt,
7. (740-48-4)
8. fron, Total
7. (7439-89-8)
7. (7439-86-4)
7. (7439-86-4)
7. (7439-86-4)
7. (7439-86-4)
7. (7439-86-4)
7. (7439-86-4)
7. (7439-86-4) ITEM V-B CONTINUED FROM FRONT
I. POLLUTANI
AND CAS NO.

Belleved a. M.
(if available) (7429-90-5)
p. Banum,
Total
(7440-39-3)
q. Boron,
Total (7439-98-7) / Manganes Total × × × × × × × × × × × × × × × × × l× × × a. MAXIMUM DAILY VALUE 0.00601 0.00148 0.010 0.116 0.072 0.029 0.009 0.005 1.640 0.50 3.16 0.12 2.00 0.79 5.00 5.00 5.00 17.2 1.30 1.00 86 0 0 c c C 0 0 ٨ 0 0 0 0 C c ٨ ٨ 15142.8 352.2 288.8 556.4 880.4 88.0 21.1 0.9 20.4 0.3 12.7 Ş Š Š ... 8 :1 5 ξ 1.6 3. EFFLUENT
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(if available)
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5. INTAKE (optional)
a. LONG TERM AVG. VALUE Z N Š Š N/N 0 С С С С С C 0 c С 0 0 С С О С C D. NO. OF

(4) Radium 226, Total

(3) Radium Total

(2) Beta, Total

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

CONTINUED FROM PAGE 3 OF FORM 2-C

Allen Steam Station

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that another your industry and for All their professions.

a ne Believed 3. MAXIMUM DAILY VALUE 5. M 1.00
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are Believed Ia MAXIMUM DAILY VALUE IN MAXIMUM 30 DAY VALUE
5. TTTCTN

(75-71-8) 14V. 1,1-Dichloro-(100-41-4) 20V. Methyl (67-66-3) 12V. Dichlero-(56-23-5) 7V. Chlorobenz 16V. Ethylbenzene 18V. 1,3-Dichloro-7V. 1,2-Dichloro-16V. 1,1-Dichloro-ISV. 1,2-Dichloro-13V. Dichloro-75-27-4) (75-25-2) 6V. Carbon (107-13-1)

DV. Benzene

(71-43-2)

4V. Bis (Chloromethyl) Ether

(542-86-1)

EV. Bromoform 1V. Acrolein (107-02-8) 2V. Acrylonitrile 1. POLLUTANT AND CAS NO. 1V. Chloroform 6V. 2-Chloro Chloroethane 124-48-1) 108-90-7) CONTINUED FROM PAGE V-3 hylene (75-35-4) pene (78-87-5) hane (75-34-3) fluoromethane hylvinyl Ethe V. Chlorodied sent sent mide (74-83-9) pylene (542-75-6) iane (107-06-2) momethane omomethane × × × × × b.pre-Believed b.pre- c.absent × (1) Concentration
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5. INTAKE (optional)
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phenol (87-86-5) 10A. Phenol [108-96-2] (100-02-7) BA. P-Chloro-M-Cresol (59-50-7) 9A. Pentachloro-Dichloroethylene (156-80-5) 27V. 1,1,1-Triphenol (51-28-5) 6A. 2-Nitrophenol phenol (120-83-2) 0A. 2,4-Dimethyl-A. 4-Nitrephenol CONTINUED FROM PAGE V-4
1. POLLUTANT | 2. MARK "X" A. 2,4-Dinitro-9V. Trichloro ethylene (127-18-4) 25V. Toluene A. 4,6-Dinitro-O-79-00-5) hioroethane 8V. 1,1,2-Tri-71-55-6) AND CAS NO. hioroethane anol (105-67-9) ncethane × × × × b.prea. MAXIMUM DAILY VALUE 2.0 2.0 10 10 10 10 6 10 50 10 10 0 2.0 2.0 2.0 2.0 2.0 (2) Mass 1.76 1.76 1.76 8.80 0.35 1.76 1.76 1.76 1.76 1.76 0.35 0.35 0.35 3. EFFLUENT
b. MAXIMUM 30 DAY VALUE
(if available) EPA I.D. NUMBER (copy from Item 1 of Form 1) NC0004979 0 0 0 0 0 0 0 0 0 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 C. LONG TERM AVG. VALUE (2) Mass OUTFALL NUMBER 002 0 0 0 0 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 d. NO. OF ANALYSES tration . Concenμg ğ υg/ υg é ě ě ğ υg l⁄gu é ě હુ 6 6 ē ě έ ğ ρ é UNITS lb/Day lb/Day lb/Day Mass lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day Allen Steam Station
5. INTAKE (optional)
a. LONG TERM AVG. VALUE (2) Mass 0.00 d. NO. OF ANALYSES

128 Bis (2-Chloroiso-propyl) Ether 108-80-1) 138 Bis (2-Ethyl-hexyl) Phthalate (117-81-7) 148 - 4 Bronn-phenyl Phenyl Ether (101-55-3) 158 Bidyl Benzyl 178. 4-Chioro-phenyl Phenyl Ether (7005-72-3) 188. Chrysene [218-01-9] 198. Dibenzo (a,h) Anthracene (53-70-3) 20B. 1,2-Dichloro-Phthalate (85-68-7) 16B. 2-Chloroethoxyl) Methane (111-91-1) 11B. Bis (2-Chloro-ethyl) Ether penzene (95-50-1) 21B. 1,3-Dichloro-penzene (541-73-1) Fluoranthene (207-08-9) fluorantherne (205-99-2) 88: Benzo (ghi) Perylerne (191-24-2) 98: Benzo (k) Anthracene (56-55-3) 68. Benzo (a) Pyrene (50-32-8) 78. 3,4-Benzo-1. POLLUTANT (92-87-5) 5B. Benzo (a) aphthalene 0B. Bis (2-Chlore 120-12-7) AND CAS NO. CONTINUED FROM PAGE V-5 3C/MS FRACTION - BASE × × × × × × × × × × × NEUTRAL COMPOUNDS

10 < a. MAXIMUM DAILY VALUE 2.0 10 0 10 6 0 6 5 6 6 10 10 10 10 100 10 0 ٨ ٨ ٨ ٨ ٨ 0.35 1.76 1.76 1.76 1.76 1.76 1.76 1.76 1.76 1.76 1.76 1.76 1.76 MAXIMUM 30 DAY VALUE EPA I.D. NUMBER (copy from Item 1 of Form 1) NC0004979 0 0 0 0 0 0 0 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 c. LONG TERM AVG. OUTFALL NUMBER 002 0 (2) Mass 0 0 0 0 0 0 0 . VALUE 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 d. NO. OF ANALYSES a. Concenug/ ug/ ω é ω_Q ug/ μg ě μģ હ્ é ρg μg ě ų, ug/ 9 ug/ ę, é b. Mass lb/Day LONG TERM AVG. VALUE Allen Steam Station
5. INTAKE (optional) 0.00 d. NO. OF ANALYSES

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

g Ş	1. POLLUTANT 2. MARK "X" AND CAS NO. a.re- Believed	if available) quir- b.pre-	GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)	228. 1,4-Dichloro- X benzene (106-46-7) 238. 3,3-Dichloro-	238: 3;3-Dichloro- benzidine X (91-94-1)	24B. Diethyl Phthalate X [84-86-2)	258. Dimethyl Phthalate X (131-11-3)	26B. Di-N-Butyl Phthalate X	╀	2)	288. 2,6-Dinitro- X toluene (606-20-2)	298. DI-N-Octyl Phthalate X (117-94-0)	30B. 1,2-Diphenyl- nydrazine (as Azo- nenzene) (122-86-7)	31B. Fluoranthene X	328. Fluorene X	33B. Hexachloro- X benzene (118-74-1)		34B. Hexa- chlorobutadiene X (87-68-3)	adiene achloro- adiene						
1-6	a. MAXIMUM DAILY VALUE	c.ab-	JEUTRAL COMPOUNDS	< 2.0	10	< 10	< 10	< 10		10	< 10	10	10	- 10	^ 10	< 10	< 10	< 10	< 10	10		100			
		┸	L	< 0.35	< 1.76	< 1.76	< 1.76	< 1.76	1.76	1.70	< 1.76	< 1.76	< 1.76	< 1.76	< 1.76	< 1.76	< 1.76	< 1.76	< 1.76	< 1.76	< 1.76	< 1.76	< 1.76		< 1.76
	b. MAXIMUM 30 DAY VALUE	(1) Concentration (2) Mass		0	0	0	0	0			c	0	0	0	0	0	0	0	0	0	0	0	0	0	
NC0004979	╝			0.00	0.00	0.00	0.00	0.00	000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200	c. LONG TERM AVG. VALUE	(1) Concentration (2) Mass	L		0 0.00	0 0.00	0 0.00	0 0.00	0 00		0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00		0 0.00	0 0.00	0 0.00	
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	⊆	tration		ι/δn	ug/l	ng/l	υg/l	ng/l	uo/	, e	ug/	ug/l	ng/l	ug/i	ug/i	ug/l	ug/l	ng/l	υg/i	ug/l	υgΛ	ug/i	ug/	ug/l	
<u>.</u>	\perp	O. MidSS		lb/Day	lb/Day	lb/Day	lb/Day	lb/Day	ib/Dav	o co	ID/Day	lb/Day	lb/Day	lb/Day	lb/Day	lb/Day	lb/Day	lb/Day	(b/Day	lb/Day	lb/Day	lb/Day	lb/Day	lb/Day	5
Allen Steam Station	5. INTAKE (optional) a. LONG TERM AVG. VALUE	(1) Concentration (2	H																						
m Station		(2) Mass		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ANALYSES														33				3					

					NICONONAG7	3	000				Allen Ste	am Station	
CONTINUED FROM PAGE V-7	AGE V-7	65		3 EEEI IIENT	NC0004979	9	200		4. UNITS	STIL	5. INTAI	5. INTAKE (optional)	
AND CAS NO. a.re-	re- Believed	a. MAXIMUM DAILY VALUE	AILY VALUE			C. LONG TERM AVG. VALUE	VG. VALUE	d. NO. OF	a. Concen-	SS	a. LONG TERM AVG. VALUE		d. NO. OF
it (in Atmissione)	sent sent	(1) Concentration	(2) Mass	1 1	(2) Mass	Ľ	(2) Mass	S			(1) Concentration	(2) Mass	ANALYSES
I • I	ASE/NEU	I⊒L	DS (continued)										
3B. N-Nitro-	\exists	< 10	< 1.76	0	0.00		0 0.00	-	ηg/	lb/Day		0.00	
										: j		3	
4B. Phenanthrene X		< 10	< 1.76	0	0.00		0.00	-	ų,	ID/Day		0.00	
45B. Pyrene X	\dashv	< 10	< 1.76	0	0.00		0 0.00	1	ug/l	lb/Day		0.00	
(6B. 1,2,4-Tri-	1									5		9	
chlorobenzene X		2.0	^ 0.35		0.00		0.00		9	(Circle)			
GC/MS FRACTION - PESTICIDES	ESTICIDI	ES					ļ						
IP. Aldrin	×	0.025	• 0.00		0.00		0.00		ug/i	іь/Оау			
2P. alpha-BHC	×	0.025	< 0.00		0.00		0 0.00	1	ug/l	lb/Day			
SP, beta-BHC	×	< 0.025	< 0.00		0 0.00		0.00	1	ng/i	lb/Day			
(315-86-7)	×	< 0.025	• 0.00		0.00		0 0.00	1	ng/l	lb/Day			
58-89-9)	_						l			5			
5P. delta-BHC 319-80-8)	×	< 0.025	^ 0.00		0 0.00		0 0.00	44	ngu	Югоау			
BP. Chlordane	×	× 0.25	< 0.04		0.00		0 0.00	1	ug/l	lb/Day			
7P. 4,4-DDT	Ĵ	X 0.025	< 0.00		0.00		0 0.00	1	ug/i	lb/Day			
8P. 4,4'-DDE	Į	X < 0.025	• 0.00		0.00		00.0	1	ug/l	lb/Day			
)P. 4,4'-DDD		X < 0.025	< 0.00		0.00		0 0.00	1	ug/i	lb/Day			
72-54-8)	_		۱				0 000	-	ug/	lb/Day	Ì		1
10P. Dieldrin 60-57-1)		X < 0.025	^ 0.00		0.00		1						
11P.alpha-Endosufan		X 0.025	< 0.00		0.00		0 0.00	1	19 /	lb/Day			
(110-20-7) 12P. beta-Endosulfan (115-20-7)		X 0.025	^ 0.00		0 0.00		0 0.00	-1	ng/l	lb/Day			
13P. Endosuifan Suffate		X < 0.025	< 0.00		0.00		0 0.00	1	ug/i	lb/Day			
1031-07-8)										F/03/		†	†
14P. Endrin (72-20-8)		X 0.025	• 0.00		0.00		0.00		g	DiDay			
15P. Endrin Aldehyde		X 0.025	^ 0.00		0 0.00		0 0.00	1	ng/i	lb/Day			
16P. Heptachior		X 0.025	< 0.00		0.00		0 0.00	-	ug/l	lb/Day			

CONTINUED FROM PAGE V.S							_					
4				NC0004979	79	002				Allen Cto	Chair	
2. MARK "X"			3. EFFLUE						100	ale nam	am Station	
Believed	a. MAXIMUM D	AILY VALUE	b. MAXIMUM 30	DAY VALUE	C LONG TERM	AVG VALUE		4. (5. INTAK	(E (optional)	
b.pre- c.ab-			(if available)		(if avaitable)	0. 452				a. LONG TERM		
sent sent	(1) Concentration	(2) Masa	(1) Concentration	(2) Mass		(2) Mass		a. Concert	D. Mass	_		d. NO. OF
TICIDES	(continued)				Ĺ	(a.) rendrano		ration		L		ANALYSES
×	< 0.025	• 0.00				1						
								ug/i	lb/Day		0.00	
×	< 0.25	< 0.04		١								
	(Action)							ug/i	Ib/Day		0.00	
×	< 0.25	< 0.04				1						
L								ugu	Ib/Day		0.00	
×	< 0.25	< 0.04		1		1			7			
								ug:	ір/Пау		0.00	
×	< 0.25	< 0.04		1				100	5			
								i.en	ір/Оау		0.00	
×	< 0.25	< 0.04		0.00		1	-	lo.	73			
								S.	ID/Day		0.00	
×	< 0.25	< 0.04		0 0.00		١		101	7			
L								g.	ib/Day		0.00	
×	< 0.25	< 0.04				1			Š			
								ngu	lb/Uay		0.00	
×	< 0.025	< 0.00		0 0.00			-	2	INDay		3	
								· G	io/Day		0.00	
		3			PAGE V-9							
	× × × × × × × × × × × × × × × × × × ×		MDAILY VAL	M DAILY VALUE 20	3. EFFLUENT M DAILY VALUE b. MAXIMUM 30 DAY VALUE (if available) c 0.00 c 0.00 c 0.04 c 0.04 c 0.04 c 0.04 c 0.04 c 0.00	3. EFFLUENT M DAILY VALUE b. MAXIMUM 30 DAY VALUE (if available) c 0.00 c 0.00 c 0.04 c 0.04 c 0.04 c 0.04 c 0.04 c 0.00	3	S. EFFLUENT C. LONG TERM AVG. VALUE MAXIMUM 30 DAY VALUE (if available) (if ovailable) (if ovail	3. EFFLUENT C. LONG TERM AVG. VALUE MAXIMUM 30 DAY VALUE (if available) (if avai	A. LUNITS A. L	3. EFFLUENT 3. EFFLUENT 3. EFFLUENT 3. EFFLUENT 4. UNITS 4. UNITS 4. UNITS 5. CONCENTRATION 6. MAXIMUM 30 DAY VALUE (if evallable) 6. MAXIMUM 30 DAY VALUE (if evallable) 6. MO. OF 6. CONCENTRATION (2) Mass (1) Concentration (2) Mass (1) Concentration (2) Mass (2) Mass (2) Mass (3) CONCENTRATION (3) CONCENTRATIO	Aller Steam Station Aller Value B. MAXIMUM 30 DAY VALUE C. LONG TERM AVG. VALUE M.NO. OF a Concentration D. Mass C. MAXIMUM 30 DAY VALUE C. LONG TERM AVG. VALUE M.NO. OF a Concentration D. Mass M.NO. OF a Concen

N PAGE V-2	CONTINUE ON PAGE V-2						PAGE V-1			<i>(</i>)		5)	EPA Form 3510-2C (Rev. 2-85)
	c		in/Day	ą.									Nitrite (as N)
			III NO	mod		0 0 0		0.0		0 9.7	0.26	×	. Nitrate-
	0		lb/Day	mg/l	2	< 37.6	< 1	< 37.6	^	< 37.6	< 1.00	×	e. Fluoride
	N/A		N/A	/100 ml	1	N/A		N/A		NA	21	>	d. Fecal Coliform
	N/A		N/A	Std. Units	1	N/A		N/A		NA	35	× ×	c. Color
	0		lb/Day	mg/l	1	0.0		0 0.0		^ 1.9	< 0.05	×	b. Chlorine, Total Residual
	0		lb/Day	mg/i	1	0.0						< >	(24959-67-9)
ANALYSES	(2) Mass	(1) Concentration		tration	ANALYSES	Mass	(1) Concentration (Mass	(1) Concentration (Vlass	Concen	sent sent	
b. NO. OF	AVG. VALUE	a. LONG TERM AVG. VALUE	b. Mass	a. Concen-	d. NO. OF	VG. VALUE	C. LONG TERM AVG. VALUE (if available)		(if available)		מי אוטטוואסאי מטורן אטרסנ	a.pre- b.ab-	(if available)
	INTAKE (optional)	5. INTAK	4. UNITS	4. U					3. EFFLUENT		MAYIMINA	2. MARK "X"	AND CAS NO
	ts	to be absent. If you mark column 2a for any alysis for that pollutants. For other pollutants ich outfall. See the instructions	at pollutant. F ee the instru	to be abser halysis for tha ach outfall. S	nt you believe it least one ar ne table for ea	tor each poliuta ₃ the results of a ge. Complete or	pollutant which is limited either directly or indirectly but expressly in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.	tations guideline, on of their presen	r in an effluent limita or an explanatic	ctly but expressly e quantitative dat	r directly or indire	limited eithe rk column 2a ails and requi	pollutant which is limited either directly or indirectly but expressly in an effluent limitations guideline, you must provide the results of at least one an for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for eadditional details and requirements.
			UNITS	STANDARD UNITS	1			MOVIMON	MINIMOM	The second secon	Topch pollutant	Column 2a fo	PART R - Mark "X" in
				DEGREES CELSIUS	1					MAYIMIM	30.3	į	(summer)
		VALUE	1				VALUE		VALUE		VALUE		h. Temperature
4		VALUE		DEGREES CELSIUS			VALUE		VALUE		VALUE		g. Temperature (winter)
		VALUE	N/A	MGD	107		VALUE 4.5		VALUE 4.5		VALUE 4.5		T. Flow
1	0		lb/Day	тдл	1	0.0		0.0		0 2.4	0.065		e. Ammonia (as N)
	0		lb/Day	ηθω	1	0.0		0 0.0		< 187.8	\$ 5.0		d. Total Suspended Solids (TSS)
	0		lb/Day	mg/l	1	0.0		0 0.0		0 86.4	2.3		c. Total Organic Carbon (TOC)
	0		lb/Day	mg/i	1	0.0		0 0.0		< 751.1	< 20		b. Chemical Oxygen Demand (COD)
	0	1.0	lb/Day	mg/i	1	0 0.0		0 0.0		< 75.1	2.0	İ	Biochemical Oxygen Demand (BOD)
b. NO. OF	(2) Mass	(1) Concentration	b. Mass	a. Concen- tration	ANALYSES	(2) Mass	(1) Concentration ((2) Mass	(1) Concentration	(2) Mass	(1) Concentration		
	AVG. VALUE	a. LONG TERM AVG. VALUE)		VG. VALUE	c. LONG TERM AVG. VALUE		b. MAXIMUM 30 DAY VALUE	ILY VALUE	a. MAXIMUM DAILY VALUE		POLLOTANT
	KE (optional)	4. INTAK	nal details. 3. UNITS	r additio	instructions to	ich outtail. See	Complete one table for each outfall. See instructions to		2. EFFLUENT	io analysis ioi ev	out of all loads of		2. EFFLUENT
	003	OUTFALL NO.							age 3 of Form 2-C	continued from p	RACTERISTICS (LUENT CHAI	V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) PART A - You must provide the possible of at least one analysis for some applications in the
	Allen Steam Station	Allen Ste		79	NC00049								SEE INSTRUCTIONS
	Name	EPA Facility Name	11)	Item 1 of Forn	ER (copy from	EPA I.D. NUMBER (copy from Item 1 of Form 1)		pages.	completing these	ormat) instead of	ts (use the same f	parate sheet	this information on separate sheets (use the same format) instead of completing these pages
		•						25		FAS ONLY YOU	INSHADED AR	TYPE IN THE	PLEASE PRINT OR TYPE IN THE LINSHADED AREAS ONLY YOU may prove some as all of

(7440-42-8) r. Cobatt, (as SO3) (14266-45-3) n. Surfactants (7440-39-3) q. Boron, Total (7439-98-7) v. Manganese Total 226, Total k. Sulfate (as SO4) (14808-79-8) Grease

. Phosphorous
(as P), Total
(7723-14-0)

. Radioactivity
(1) Alpha, (7429-90-5) p. Barium, Total otal g. Nitrogen, Total Organic otal × × a.pre-× × l× × × × × × × × × × × × × × Believed pre- b.aba. MAXIMUM DAILY VALUE 0.062 0.0010 0.010 0.001 0.014 2.11 2.410 0.058 0.028 0.028 2,610 0.16 1.00 4.33 5.00 2,00 5.30 1.00 5,00 0.28 1.00 0 0 ٨ 0 0 0 0 0 0 0 0 (2) Mass 0 90.5 0.4 2.3 0.0 79.2 98.0 37.6 187.8 75.1 199.0 0.0 2.2 \Box N. N/A Š $\vec{\Box}$ 10.5 3. EFFLUENT
MAXIMUM 30 DAY VALUE EPA I.D. NUMBER (copy from Item 1 of Form 1) 0.062 0.028 0.001 2.41 0.058 2.61 53 (2) Mass 0 0 0 0 0 ٨ 0 0 0 0 0 0 0 0 0 0 0 NC0004979 90.5 0.0 0.0 2.3 79.2 98.0 0.0 0.0 2.2 $\vec{\Box}$ 0.0 0.0 0.0 199.0 Š N/A N/A N/A 0.0 0.0 0.0 c. LONG TERM AVG. VALUE ٨ 0.0225 0.059 0.001 0.029 2.08 1.42 1.47 5.15 OUTFALL NUMBER ٨ 0 0 0 0 0 0 0 0 0 0 0 0 0 53.3 0.0 0.0 0.0 78.1 55.2 193.4 Z. 003 2.2 0.0 $\vec{\Box}$ 0.8 0.0 0.0 0.0 ΝÃ N/A N/A 0.0 0.0 0.0 d. NO. OF ANALYSES N N N N N N a. Concen-tration ğ mg/l Δ mg/ φ mg/ ηgπ ξ mgΛ рСіл рСіЛ рСіЛ pCi/l β ηgn mgΛ βm P δ β mgΛ . Mass lb/Day NA N N N/ Ν× a. LONG TERM AVG. VALUE Allen Steam Station
5. INTAKE (optional) (2) Mass N/A 0 0 N/A N/A N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 b. NO. OF ANALYSES

TINUE ON PAGE V-3

EPA I.D. NUMBER (copy from flem 1 of Form 1) OUTFALL NUMBER

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instruction 003 Allen Steam Station

PAGE V-4	CONTINUE ON PAGE V-4							PAGE V-3				2000				2-85)	EPA Form 3510-2C (Rev. 2-85
	0.00		lo/Day) Agd		-	-			-	-				_	L	Dioxin (1764-01-6)
			F-02:	200	_	00	0		0.0	0		22.2	^	< 0.592	×		chlorodibenzo P
													ST	DESCRIBE RESULTS	5	$\frac{1}{2}$	2,3,7,8 Tetra
	0.00		Year	ě			_			_					_	H	Total
	8		lh/Day	mo/i		0.0	0		0.0	0		0.2	^	< 0.005		×	15M. Phenols,
	0.00		lb/Day	ng/i	1	0.00	0		0.00	0		0.38	٨	0.010		×	Total (57-12-5)
	0.00		lb/Day	ngin		0.00				_					_	\vdash	(7440-66-6)
			5		3	0.68	2	0.018	1.09	0.029 0	0.	1.09	0	0.029		×	13M. Zinc, Total
	0.00		lb/Day	mg/i	1	0.0	0		0.0			0.0	^	< 0.0002	_		Total (7440-28-0)
	0.00		,	,						_			Γ	•		<u>{</u>	(7440-22-4)
	0.00		lb/Day	ng/l	-	0.00	0		0.00	0		0.04	٨	< 1.0		×	11M. Silver, Total
	0.00		lb/Day	/γgu	2	0.04	^	^	0.04	^	۸	0.04	^	1,0		,	Total (7782-49-2)
							L		l	+	T	2	T	40	+	4	10M Salanium
	0.00		lb/Day	ng/l	2	0.04	^	^	0.04	1	^	0.04	^	< 1.0		×	PM. Nickel, Total (7440-02-0)
	0.00		lb/Day	ng/i	1	0.00	0		0.00	0		0.00	0	0.00115		_	(7439-97-6)
	0.00		lb/Day	ug/i	2	0.04	^	< 1	0.04	^	^	0.04	^	1.0		; >	(7439-92-1)
	0.00		lb/Day	mg/i	2	0.15	0	0.004	0.30	0.008 0	0.	0.30	-	0.008		<u> </u>	(7440-50-8)
	0.00		lb/Day	ug/l	2	0.03	0	0.87	0.06	1.7 0		0.06	c	7.1		; >	Total (7440-47-3)
	0.00		lb/Day	5		0.0021				L					L	-	Total (7440-43-9)
			j		3	0.0021	^	< 0.055	< 0.0376	_	^	0.0376	^	^ 1		×	4M. Cadmium,
	0.00		lb/Day	ug/l	1	0.00	0		0 0.00			0.04	^	< 1.0		×	3M. Beryllium, Total (7440-41-7)
	0.00		lb/Day	ug/i	2	0.04	^	^	< 0.04		^	0.04	^	1.0	_	×	2M. Arsenic, Total (7440-38-2)
	0.00		lb/Day	ug/i	2	0.04	٨	^	< 0.04	_	٨	0.04	٨	1.0		×	Tetal (7440-36-0)
ANALYSES	(Z) Mass	(1) concentration					- [AND TOTAL PHENOLS	TOTAL		METALS, CYANIDE,
d. NO. OF	1		D. Mass	tration	<u> </u>	453	on (2) Mass	(1) Concentration	(2) Mass	Ll	(1) Concentration	13	(2) Mass	(1) Concentration	nt sent (
	AVG. VALUE	a. LONG TERM AVG. VALUE			- - - - - - - - - - - - - - - - - - -	. 47100	5 17 X	(if available)	i i	ilabie)	(if available)				_'_	quir- b.p	(if available)
	5. INTAKE (optional)	5. INTAI	4. UNITS	4. U		\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	OVA MO	TONO TE	b. MAXIMUM 30 DAY VALLIE	AXIMUM 30 D	b. MAXIN	ALUE	V YIIAC	a. MAXIMUM DAILY VALUE	ā	9.70	AND CAS NO.
	•													irements.	s and requ	2 MARK "X"	1. POLLUTANT 12 MARK "X"
	the "	believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part, please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions	reach outfall	it at least on 7 pages) for	st either subm one table (all	1 2b, you mu ly. Complete	rk columr th careful	vhich you mai se review eac	pollutants for w this part; pleas	rwise, for pages to	eater. Other there are 7	ppb or gn Note that	s of 100 harged.	ted to be disc	t is expec	pollutar	reasons the
	or	acrolein, acrylonitrile, 2, 4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you have or have account to	eater. If you r	10 ppb or gre	h of these poll	lysis for eacl	t one ana	ults of at least	movide the res	ou must p	rophenol, y	1-4, 6 dinit	2-methy	itrophenol, or	e, 2, 4 din	rylonitril	acrolein, ac
	aci	must provide the results of at least one analysis for that pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you	umn 2b for a	ou mark colu	t pollutant. If y	alysis for tha	st one an	sults of at leas	must provide the results of at least one analysis for that pollutant, you must provide the results of at least one analysis for that pollutant. If	you must	pollutant, y	2a for any that nollut	column hsis for	it. If you mark least one ana	e is abser sults of at	e the re	must provid
	7	nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to be in the present which it is not to be a column 2-b for each pollutant you know or have reason to be in the present which it is not to be a column 2-b for each pollutant you know or have reason to be in the present which it is not to be a column 2-b for each pollutant you know or have reason to be a column 2-b for each pollutant you know or have reason to be a column 2-b for each pollutant you know or have reason to be a column 2-b for each pollutant you know or have reason to be a column 2-b for each pollutant you know or have reason to be a column 2-b for each pollutant you know or have reason to be a column 2-b for each pollutant you know or have reason to be a column 2-b for each pollutant you know or have reason to be a column 2-b for each pollutant you know or have reason to be a column 2-b for each pollutant you know or have been pollutant you know or have been pollutant you know or have been pollutant you know	Mark "X" in	e is present	ason to believ	v or have rea	you know	ach pollutant	olumn 2-b for e	rk "X" in cı	tions), mar	C/MS frac	quired G	ills, and nonre	rater outfa	wasten	nonprocess
	in	fractions that apply to your industry and for ALL toxic metals, evanides, and total phanols. If you are not required to made column 2 of fractions you must test for. Mark "X" in	ns you must t	MS fraction	not required t	is if you are	al phenol	nides, and tot	column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and fotal phanols, If you are not remitted	or ALL tox	lustry and f	to your ind	at apply i	S fractions the	uch GC/MS	for all s	column 2-a

0.000 1 ug/l lb/Day 0							5455					- R5	EPA Form 3510-2C (Rev. 2-85)
	0.00		lb/Day	ug/l	1	0.00	0				2.0		21V. Methyl X Chloride (74-87-3)
Solution Color C	0.00		lb/Day	ng/i	1		0				2.0		20V. Methyl X Bromide (74-83-9)
Solution Color C	0.00		lb/Day	ng/l			0				2.0		enazme
Solution Color C	0.00		lb/Day	ng/i	1	0.00	0				2.0		0)
SO C 0.119 D 0.000 D 0.000 T Ugh D D D D D D D D D	0.00		lb/Day	∩gu	1	0.00	0				2.0		
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a. MAXIMUM DAILY VALUE b. MAXIMUM 30 DAY VALUE c. LONG TERM AVG. VALUE d. NO. OF a. Concen- b. Mass	┙	a. LONG TI	b Mass	a. Concen-	d. NO. OF	/G. VALUE	c. LONG TERM A\ (if available)	DAY VALUE	b. MAXIMUM 30 (if available)	ILY VALUE	a. MAXIMUM DA	b.pre- c.ab-	(if available) quir-
3. EFFLUENT 4. UNITS	INTAKE (optional)	5.	STINI	4.				AT.	3. EFFLUE			ARK "X"	
NC0004979 003	Steam Station	Allen		j sea		003	79	NC00049				M PAGE V-3	II
3. EFFLUENT 3. EFFLUENT 4. UNITS	I Steam Stat INTAKE (option ERM AVG. VAL Ion (2) Mass	Allen 5 i a. LONG Ti (1) Concentratio	b. Mass	a. Conce tration	ANALYSES	OUTFALL NUMBER 003 AVG. VALUE d. N (2) Masss ANU 0 0.00		NC0004979 NC0004979 NC0004979 NC0004979 NC0004979 C. LONG TERM (If available) (if available) (if available) (if available) O 0.00 O 0.	3. EFFLUED b. MAXIMUM 30 (if evaluable) (i) Concentration	(2) Mass (2) Mass (0.19	a. MAXIMUM DA (1) Concentration OMPOUNDS 5.0	OM PAGE V-3 2. MARK "X" Believed quir. byte- cab sent sent sent sent volume to the cab. X X X X X X X X X X X X X X X X X X X	OTION - X

A UNITS Allen Steam Station 3. EFFLUENT 3. EFFLUENT 5. INTAKE (optional) 5. INTAKE (optional) 6. MAXIMUM 30 DAY VALUE (if available) (if available) (if available) (if optionation (2) Mass (1) Concentration (2) Mass (2) Mass (2) Mass (2) Mass (3) Mass (3) Mass (4) Mass (4) Mass (4) Mass (5) Mass (5) Mass (6) Mass
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EPÄ I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

										L	-			01/2010 (041-73-1)
	0.00		lb/Day	ug/l	-	0.00	0	0.00		0.08	^	< 2.0	X	_
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	0.00		lb/Day	ng/l	1	0.00	0	0 0.00		0.38	^	< 10	×	
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	0.00		lb/Day	ug/l	,	0.00	0	0 0.00		0.38	^	10	×	
	0.00		lb/Day	υg/i	1 3	0.00	0	0 0.00		0.38	^	10	×	Phthalate (85-68-7)
	0.00		lb/Day	ng/i	-	0.00	0	0 0.00		0.38	^	10	×	
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	0.00		lb/Day	ug/l	1	0.00		0 0.00		0.38	^	^ 10	×	³⁸ . Benzo (ghi) ³ erylene (191-24-2) ³⁸ . Benzo (L)
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	0.00		lb/Day	ug/l	1	0 0.00		0 0.00		0.38	٨	< 10	×	Anthracene (50-55-3)
	0.00		lb/Day	ug/l	-	0.00		0 0.00		3.76	^	< 100	×	48. Benzidine (92-87-5)
	0.00		lb/Day	ng/i	4	0.00		0 0.00		0.38	٨	< 10	×	38. Anthracene (120-12-7)
	0.00		lb/Day	ηgu	-	0.00		0 0.00		0.38	^	< 10	×	28. Acenaphtylene (208-96-8)
	0.00		lb/Day	Ven	1	0.00		0.00		0.38	^	< 10	×	1B. Acenaphthene 83-32-9)
ANALYSES	(2) Mass	(1) Concentration		tration	ANALYSES	(2) Mass	(1) Concentration (2	(2) Mass	(1) Concentration (JNDS SQNI	NEUTRAL COMPOUNDS	- BASE NEUT	١āL
d. NO. OF	a. LONG TERM AVG. VALUE	a. LONG TER	b. Mass	a. Concen-		/G. VALUE	Ĩ	<u> </u>	38	L	DAILY	a: MAXIMUM DAILY VALUE	quir- b.pre- c.ab-	
	AKE (optional)	5. INT	STINU	4. U] [2	2 NAVIM IN	WARA A	AND CAS NO
	Allen Steam Station	Allen S												7

podimethylamine (62-75-9) (91-20-3) 40B. Nitrobenzene ethane (67-72-1) 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) 38B. Isophorone cyclopentadiene (77-47-4) (87-08-3) 35B. Hexachloro-30B. 1,2-Diphenyl-hydrazine (as Azo-benzene) (122-66-7) 31B. Fluoranthene (206-44-0) 32B. Fluorene 278: 2,4-Dinitro-lotuene (121-14-2) 288: 2,6-Dinitro-lotuene (606-20-2) 268: DHN-Octyl 12B. N-Nitrosod (86-73-7) 33B. Hexachloro-Phthalata (131-11-3) 268. Di-N-Butyl Phthalate 228. 1,4 -Dichloro-benzene (106-46-7) 238. 3,3-Dichloro-98. Naphthalene 88. Hexachloro 48. Неха-117-84-0) Phthalate (84-66-2) benzidine (91-94-1) 24B. Diethy norobutadiene hthalate 58. Dimethy GC/MS FRACTION - BASE/ CONTINUED FROM PAGE V-6 inzene (118-74-1) AND CAS NO POLLUTANT × × × × × × × × × b.pre-Believed b.pre- c.ab-sent sent ٨ ٨ ٨ ٨ MAXIMUM DAILY VALUE COMPOUNDS (continued)
2.0 < 0.08 10 10 a d 10 10 6 ō 8 10 10 ð ö 10 ä a 10 10 5 ٨ ٨ ٨ ٨ ٨ ٨ ٨ 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 MAXIMUM 30 DAY VALUE 3. EFFLUENT EPA I.D. NUMBER (copy from Item 1 of Form 1) 0 0 (2) Mass 0 0 0 0 0 0 0 0 0 0 NC0004979 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 c. LONG TERM AVG. 0 0 (2) Mass OUTFALL NUMBER 0 0 0 0 0 0 0 0 . VALUE 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 003 0.00 0.00 0.00 0.00 0.00 0.00 d. NO. OF a. Concené é 9 υ é ρ ě é 9 ug/ υg/ ě é ų ρg μ ٩ ρģ υg l/gu UNITS b. Mass lb/Day a. LONG TERM AVG. VALUE Allen Steam Station (2) Mass 0.00 d. NO. OF ANALYSES

Aldehyde (7421-93-4) 16P. Heptachlor (115-29-7) 12P. beta-Endosulfan (80-57-1) 11P.alpha-Endosulfan 15P. Endrin (1031-07-8) 14P. Endrin (72-54-8) 10P. Dieldrin (50-29-3) 8P. 4,4*-DDE (72-55-9) 8P. 4,4*-DDD (72-20-8) (58-89-9) 5P. delta-BHC (129-00-0) 468. 1,2,4-Tri-I3P. Endosulfan (57-74-9) (120-82-1) GC/MS FRACT 319-86-8) (315-86-7) 4P. gamma-BHC (309-00-2) 2P. alpha-BHC (85-01-8) 1. POLLUTANT CONTINUED FROM PAGE V-7 P. 4,4'-DDT 319-84-6) P. beta-BHC ISB. Pyrene 148. Phenanthrene AND CAS NO. 38. N-Nitrohlorobenzena (6-30-6) . Aldrin diphenylamine C/MS FRAC Chlordane ION - PEST × × b.pre-C.ab sent × × a. MAXIMUM DAILY VALUE 0,025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.25 2.0 10 10 0 ٨ ٨ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 6. MAXIMUM 30 DAY VALUE EPA I.D. NUMBER (copy from Item 1 of Form 1) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 LONG TERM AVG. VALUE 0 (2) Mass OUTFALL NUMBER 0 0 0 0 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 8 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 d. NO. OF ANALYSES a. Concen-tration Ę ě ğ ğ μ ě υg é ğ ě ě υ υg ğ ě ě ğ é ğ ω UNITS b. Mass lb/Day Allen Steam Station
5. INTAKE (optional)
a. LONG TERM AVG. VALUE (2) Mass 0.00 0.00 0.00 0.00 d. NO. OF ANALYSES

CONTINUED FROM PAGE V-8	OM P	AGE V-8						NC0004979	979	003				Allen Ste	Allen Steam Station	
1. POLLUTANT	_	2. MARK "X"	П				3. EFFLUENT	ı				4	4 LINITS	ATAI S	S INTAKE (optional)	
AND CAS NO.	B./e-	Believed	a. MAX	a. MAXIMUM DAILY VALUE	ILY VAL		b. MAXIMUM 30 DAY VALUE	DAY VALUE	c. LONG TERM AVG. VALUE	AVG. VALUE				a. LONG TERM AVG. VALUE	AVG. VALUE	
(if available)	quir-	b.pre- c.ab-					(if available)		(if available)		d. NO. OF	a. Concen-	b Mass		0	5
	ed	sent sent	(1) Concentration	n	(2) Mass	<u> </u>	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	n	tration		Т		
GC/MS FRACTION - PESTICIDES (continued)	ON - PI	ESTICIDE	S (contin								- 12			(1) CONCERNATION	(Z) Mass	ANALTSES
17P. Heptachlor														7.5		
Epoxide		×	۸	0.025	^	0.00		0 0.00		0 0.00		100	lh/Day		3	
1024-57-3)												9	widey		0.00	
18P. PCB-1242		×	۸	0.25	^	0.01		0 0.00		000	4	2	50			
(53469-21-9)											Section Control	ign	ib/Day		0.00	
19P, PCB-1254		×	۸	0.25	^	0.01		0 0.00		0 000		10/	5000			
11097-69-1)									-			g.	iorday		0.00	
20P, PCB-1221		×	٨	0.25	^	0.01		0 0.00		0 0.00	4	2	B/Dav	AE		
11104-28-2)												q	, coop		0.00	
21P. PCB-1232		×	^	0.25	٨	0.01		0.00		0 0.00	-	IIQ/I	h/Day		8	
11141-16-5)												eg.	ioroay		0.00	
22P, PCB-1248		×	٨	0.25	^	0.01		0.00		0.00		100	lk/Dav			
12672-29-6)												e e	ioroay	No. of Street, or other Persons	0.00	
23P. PCB-1260		×	۸	0.25	^	0.01		0 0.00		0.00	-	100	ib/Day			
11098-82-5)												9	iorcay	100 11 100	0.00	
24P, PCB-1016		×	۸	0.25	^	0.01		0 0.00		0.00		10/	F/D2:		8	
12674-11-2)				V.								ě	i i i i i i i i i i i i i i i i i i i		0.00	
25P. Toxaphene		×	^	0.025	^	0.00		0 0.00		0 0.00		uo/i	lb/Dav		9	
(8001-35-2)												,				1

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of

. Fluoride SEE INSTRUCTIONS this information on separate sheets (use the same format) instead of completing these pages 24959-67-9) ND CAS NO 6984-48-8) ART B - Mark "X" in column 2a for each pollutant you know or have reason to believe is present. Mark "X" in column 2b for each pollutant you believe to be absent. If you mark column 2a for any PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details 2. EFFLUENT 3. UNITS emand (COD)
Total Organic tal Residual Temperature Ammonia (as N) Total Suspended Biochemical Oxygen INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) POLLUTANT rbon (TGC) for additional details and requirements for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions pollutant which is limited either directly or indirectly but expressly in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants ind (BOD) ical Oxygen B.pre-× × b.aba. MAXIMUM DAILY VALUE VALUE MUMINIM ¥LUE a. MAXIMUM DAILY VALUE Concentration 0.059 0.05 0.24 7.00 1.00 1.00 6 5.0 2.6 20 2.0 MUNIXAM (2) Mass o 271.2 1084.9 54.2 12.8 N/A Š 2.7 54.2 3.2 141.0 108.5 b. MAXIMUM 30 DAY VALUE MUMINIM VALUE VALUE VALUE b. MAXIMUM 30 DAY VALUE MAXIMUM (2) Mass 0 0 0 0 0 0 0 0 0.0 54.2 Š N/A 0.0 0.0 0.0 0.0 0.0 0.0 0.0 c. LONG TERM AVG. VALUE VALUE VALUE c. LONG TERM AVG. VALUE 0 0 EPA I.D. NUMBER (copy from Item 1 of Form 1) 0 0 0 0 54.2 0.0 N/A N/A 0.0 0.0 0.0 0.0 0.0 0.0 0.0 ANALYSES tration d. NO. ANALYSES NC0004979 NO 107 읶 . 유 DEGREES CELSIUS tration Std. Units . Concen-STANDARD UNITS DEGREES CELSIUS a. Concen-/100 ml mg/ MPN ηgm MGD P P mg ηgn ηgn mg/ ηgn STINU b. Mass Mass lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day N/A N/A Ş a. LONG TERM AVG. VALUE VALUE VALUE OUTFALL NO. VALUE 4. INTAKE (optional)
LONG TERM AVG. VALUE Allen Steam Station **EPA Facility Name** INTAKE (optional) (2) Mass 004 (2) Mass CONTINUE ON PAGE V-2 #VALUE! N N/A 0 0 0 0 ANALYSES ANALYSES . NO Ö ç 읶

7440-48-4) s. Iron, Total 7439-89-6) I. Magnesium T. Suffee 226, Total k. Suffate (as SO4) [14808-79-8] (es P), Total [7723-14-0] J. Radioactivity (7440-42-8) r. Cobalt, Total (as SO3) (14265-45-3) n. Surfactants (7440-39-3) q. Boron, Total g. Nitrogen, Total Organic (as N) h. Oil and 1. POLLUTANT 2. MARK 'X' AND CAS NO. Believed a. M. 429-90-5) × × × × × a.pre-× × × × × × × × × × × × × × -da-d a. MAXIMUM DAILY VALUE 0.0010 0.009 0.010 0.260 2,580 0.001 0.029 2.840 0.057 0.025 2,58 12.00 5.00 2.00 0.81 5.00 5.00 0.26 1.20 1.00 0 0 ٨ 0 0 0 0 ٨ 0 0 0 0 139.9 139.9 650.9 14.1 271.2 0.5 2.4 2.1 <u>3</u> 154.0 108.5 65.1 1.6 ΝÃ N/A N N 4.1 1.4 3. EFFLUENT MAXIMUM 30 DAY VALUE EPA I.D. NUMBER (copy from Item 1 of Form 1) 0.001 2.58 0.057 0.029 2.58 2.84 12 0 0 0 ٨ 0 0 0 0 0 0 0 0 0 0 0 0 NC0004979 650.9 139.9 0.0 0.0 14.1 0.1 139.9 0.0 3.1 154.0 0.0 0.0 0.0 N/A Z. 1.6 N/A Š. 0.0 c. LONG TERM AVG. 0.175 0.001 0.023 2.45 1.45 0.028 9.75 1.56 OUTFALL NUMBER 0 0 0 0 0 0 0 0 0 0 0 0 0 . VALUE 271.2 0.0 0.0 9.5 0.1 132.9 78.7 84.6 528.9 0.0 Ġ 1.2 0.0 0.0 0.0 N/A N/A N. Š. 0.0 0.0 d. NO. OF N N . Concenηgm mg/ æ βE mg/l pCi/ φ 1 ρm pCi/l pCi/l æ μØ ηg § mg/l Ψ pCi/ ΘĒ mg/l ηgη UNITS lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day Mass lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day N. N/A N/A N/A LONG TERM AVG. VALUE Allen Steam Station
5. INTAKE (optional) (2) Mass 0 0 0 0 0 0 N. N/A N/A N N 0 0 0 0 0 0 0 0 0 b. NO. OF ANALYSES

EPA I.D. NUMBER (copy from flem 1 of Form 1) OUTFALL NUMBER

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in 15M. Phenols I3M. Zinc, Total 12M, Thatlium 7440-02-0) ,3,7,8 Tetra 4M. Cyanide. otal (7440-28-0 7440-22-4) 1M. Säver, Total 0M. Selenium, M. Nickel, Total 3M. Mercury, Total M. Copper, Total 2M. Arsenic, Total M. Antimony, CONTINUED FROM PAGE 3 OF FORM 2-C 439-92-1) otal (7440-41-7) M. Cadmium, M. Beryllium, AND CAS NO. oxin (1764-01-6) xal (57-12-5) M. Lead, Total 440-50-8) ital (7782-49-2) 140-66-6) tal (7440-43-9) tal (7440-36-0) available) prodibenzo P lal (7440-47-3) POLLUTANT . Chromium, 40-38-2) TALS, CYAP reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the acrolein, acrylonitrile, 2, 4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you for additional details and requirements × > × × × × MARK "X" b.pre-C.ab × Neg. PHENOLS DESCRIBE RESULTS ٨ a. MAXIMUM DAILY VALUE 0.0002 0.627 0.005 0.010 0.005 0.00111 0.007 1.0 1.0 1.0 10 0.1 2.0 1.0 1.0 1.0 ٨ 0 0 0.05 34.0 0.54 0.27 0.05 0.05 000 0.05 0.38 0.01 0.3 0.0 0.11 0.05 0.05 0.05 ٨ MAXIMUM 30 DAY VALUE 3. EFFLUENT 0.27 0.007 0.01 0 (2) Mass 0 0 0 0 0 ٨ 0 ٨ NC0004979 0.00 14.65 0.00 0.05 0.05 0.00 0.00 0.0 0.0 0.0 0.05 0.38 0.11 0.00 0.05 0.05 c. LONG TERM AVG. VALUE (if available) 0.139 0.0035 0.01 0 (2) Mass 0 0 0 0 0 0.0 0.00 0.0 7.54 0.0 0.00 0.05 0.05 0.00 0.05 0.19 0.11 0.00 0.00 0.05 0.05 8 ANALYSES d. NO. OF N N tration a. Concen-₽g/L ηgn PGE 1 βm Ψ μğ ug/ ě ě ωg ρm υg g Q é é ωg/ 4. UNITS b. Mass lb/Day lb/Day lb/Day lb/Day lb/Day ib/Day lb/Day a. LONG TERM AVG. VALUE Allen Steam Station INTAKE (optional) (2) Mass 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 d. NO ANALYSE Q

CONTINUE ON PAGE V-

(100-41-4) 20V. Methyl propylene (542-75-8) 19V. Ethylbenzene propane (78-87-5) 18V. 1,3-Dichloro-75-71-8) 14V. 1.1-Dichloro-ethane (75-34-3) 15V. 1,2-Dichloro-ethane (107-06-2) 16V. 1,1-Dichloro-ethylene (75-35-4) 17V. 1,2-Dichloroethylvinyl Ether (110-75-8) 11V. Chloroform oromomethane (124-48-1) 9V. Chloroethane (67-66-3) 12V. Dichloro-(75-00-3) 10V. 2-Chlorohloride (74-87-3) 3V. Dichloro-(56-23-5) 7V. Chlorober (542-88-1) 5V. Bromoform 1V. Acrolein (107-02-8) 2V. Acrylonitrile 108-90-7) V. Chlorodi-CONTINUED FROM PAGE V-3

1. POLLUTANT 2. MARK X

AND CAS NO. are Believed (107-13-1) IV. Bis (Chloro 3V. Benzene nethyl) Ether тотефале × × × × × Sent Sent Believed b.pre- c.absent × (1) Concentration COMPOUNDS a. MAXIMUM DAILY VALUE 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 5.0 2.0 2.0 2.0 2.0 2.0 5.0 5.0 (2) Mass ٨ ٨ ٨ 0 0.11 0.11 0.11 0.11 0.11 0.11 0.27 0.11 0.11 0.27 . MAXIMUM 30 DAY VALUE EPA I.D. NUMBER (copy from Item 1 of Form 1) 0 0 0 0 0 0 0 0 NC0004979 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 C. LONG TERM AVG. VALUE (1) Concentration (2) Mass OUTFALL NUMBER 0 0 0 0 0 0 0.00 8 d. NO. OF ANALYSES tration a. Concen-1₀ ğ ě μg υgu υg é μg é ě l/gu ě ě β ğ υg/ μ l/gu g, υ STINO o lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day Іь/Фау lb/Day lb/Day lb/Day lb/Day Mass lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day lb/Day Allen Steam Station
5. INTAKE (optional)
a. LONG TERM AVG. VALUE (2) Mass 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 d. NO. OF ANALYSES

CONTINUE ON PAGE V-

(75-27-4)

71-43-2)

phenol (51-28-5) BA, 2-Nitrophenol (88-75-5) 7A, 4-Nitrophenol 100-02-7) BA, P-Chloro-M-Cresci (59-50-7) BA. Pentachloro-phenol (87-86-5) 10A. Phenol 108-96-2) 11A. 2,4,6-Tri-Chloride (75-01-4)
GC/MS FRACT
1A. 2-Chlorophenol chloroethane (71-55-6) 28V. 1,1,2-Tri-Cresel (534-52-1) 6A. 2,4-Dintrophenol (105-67-9) 4A. 4,6-Dinitro-O-(95-57-8) 2A. 2,4-Dichloroathylene (79-01-8) 00V. Trichloro-fluoromethane Dichloroethylene (156-80-5) 31V. Vinyl 75-69-4) Chloride (75-09-2) 23V. 1,1,2,2-Tetra-CONTINUED FROM PAGE V-4

1. POLLUTANT | 2. MARK "X" 9V. Trichloro hioroethane 6V. 1,2-Trans 108-88-3) 7V. 1,1,1-Tn ND CAS NO. . 2,4-Dimethyl enol (120-83-2) ylene (127-18-4) × × × × × × b.pre-COMPOUNDS (continued) MAXIMUM DAILY VALUE 10 8 2.0 2.0 2.0 2.0 2.0 2.0 0 0 0 0 10 10 ö 0 2.0 2.0 0 ٨ ٨ ٨ ٨ ٨ ٨ 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.11 0.11 0.11 0.54 0.11 0.11 0.11 0.11 3. EFFLUENT MAXIMUM 30 DAY VALUE EPA I.D. NUMBER (copy from Item 1 of Form 1) (2) Mass 0 0 0 0 0 a 0 NC0004979 0.00 c. LONG TERM AVG. VALUE 0 0 OUTFALL NUMBER 0 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 004 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 d. NO. OF ANALYSES a. Concen-tration ě 6 υg/ ě g. ě 6 ű l/gu ų υğ υg 10 ω, ğ é é é ě ğ μg . UNITS ō . Mass lb/Day 5. INTAKE (optional)
a. LONG TERM AVG, VALUE Concentration Allen Steam Station
5. INTAKE (optional) (2) Mass 0.00 d. NO. OF ANALYSES

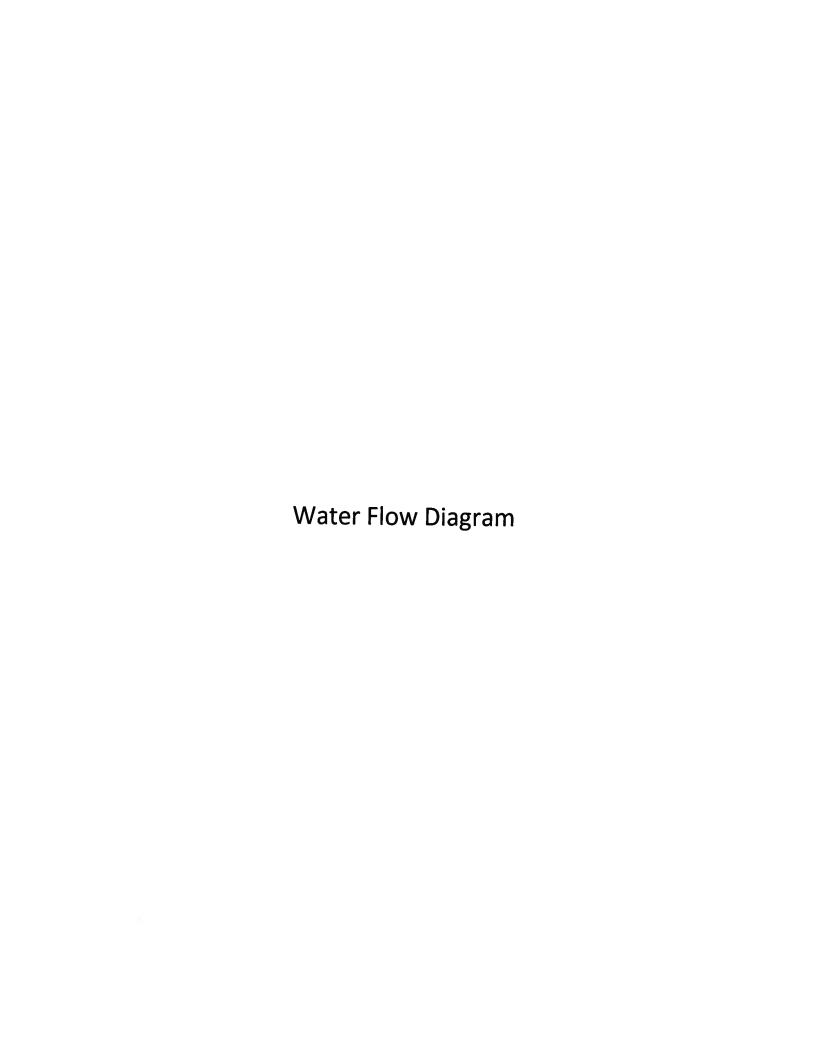
cheryl Phenyl
Ether (101-55-3)
Ether (101-55-3)
Ethe (101-55-3)
Ether (101-55-3)
Ether (101-55-3)
Ether (101-55-7)
Ether (201-55-7)
Ether (7005-72-3)
Ether (7005-72-3)
Ether (7005-72-3)
Ether (7005-72-3) propyl) Ether [108-80-1) 13B. Bis (2-Ethyl-hexyl) Phthalate [117-81-7) benzene (96-50-1) 21B. 1,3-Dichloro-benzene (541-73-1) ethoxyl) Methane [111-91-1] 11B. Bis (2-Chloro-ethyl) Ether [111-44-4] (120-12-7) 4B. Benzidine (92-87-5) Ruoranthene
(205-90-2)
(88. Benzo (ghi)
(99-2)
(90-2)
(191-24-2)
(90-20 (k)
(90-20 (k) 12B.Bis (2-Chlor Anthracene (56-55-3) (83-32-9) 2B. Acenaphtylene 68. Benzo (a) Pyrene (50-32-8) 78. 3,4-Benzo-0B. Bis (2-Chloro CONTINUED FROM PAGE V-5
1. POLLUTANT | 2. MARK "X" B. Benzo (a) GC/MS FRACT AND CAS NO. × × × × × × × × × b.pre-801 NEUT c.absent UTRAL COMPOUNDS a. MAXIMUM DAILY VALUE 2.0 10 ð 10 10 5 10 d 10 10 10 10 10 0 8 a d ٨ ٨ ٨ ٨ ٨ ٨ ٨ 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 . MAXIMUM 30 DAY VALUE EPA I.D. NUMBER (copy from Item 1 of Form 1) 0 (2) Mass 0 0 0 0 0 0 0 0 0 0 NC0004979 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 LONG TERM AVG. VALUE (2) Mass 0 0 0 0 OUTFALL NUMBER 0 0 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 004 0.00 0.00 d. NO. OF ANALYSES . Concenυg/ μģ ug/ ě ρģ Ę, é ψ υQ é ğ μģ é é μģ é é ų υg 4. UNITS Mass lb/Day a. LONG TERM AVG. VALUE Allen Steam Station
5. INTAKE (optional) (2) Mass 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 d. NO. OF ANALYSES

	0.00											-	ŀ	
			lb/Day	ug/l	=	0 0.00		0.00	0	0.54	10	^	×	N-Propylamine 621-64-7)
	0.00		lb/Day	ng/i	1	0 0.00		0.00	0	0.54	10	^	×	odimethylamine 62-75-9) 12B. N-Nitrosodi-
	0.00		lb/Day	ug/I	.1	0.00		0.00	0	C. 24	2		,	98-95-3)
	0.00		lb/Day	n9/l	1	0 0.00			0	l	10		₫ ,	91-20-3)
	0.00		lb/Day	ug/l	-	0.00		0.00	0		10	^	×	78-59-1)
	0.00		lb/Day	иg/l	1	0.00		0.00	0			٨	×	1,2,3-od) Pyrene 193-39-5)
	0.00		lb/Day	ng/i	-	0.00		0.00	0	0.54	10		,	ethane (67-72-1)
	0.00		lb/Day	ug/l	1	0 0.00		0.00	0		10		×	SSB. Hexachioro- cyclopentadiene 77-47-4)
	0.00		lb/Day	ug/l	1	0 0.00		0.00	0	< 0.54	10	٨	×	chlorobutadiene 97-68-3)
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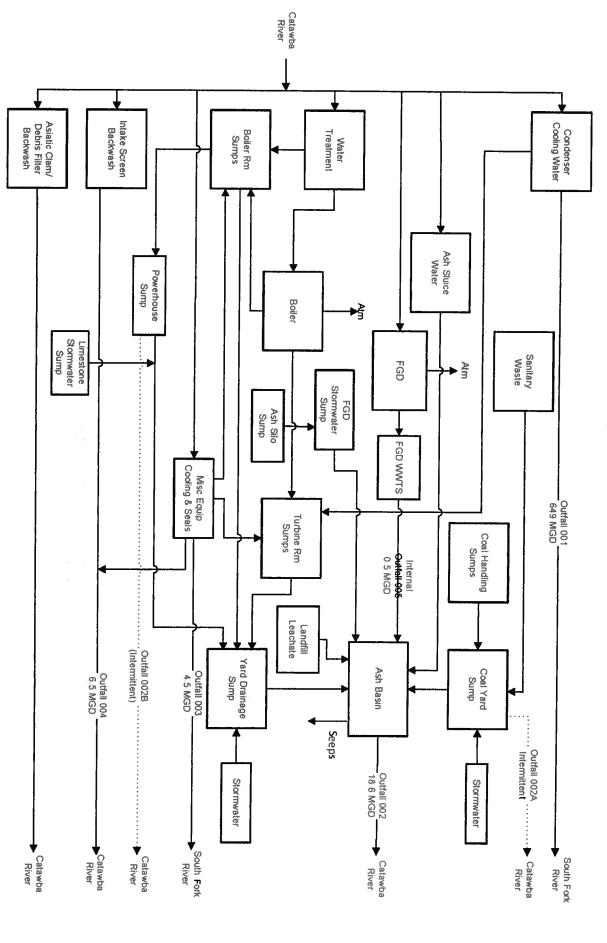
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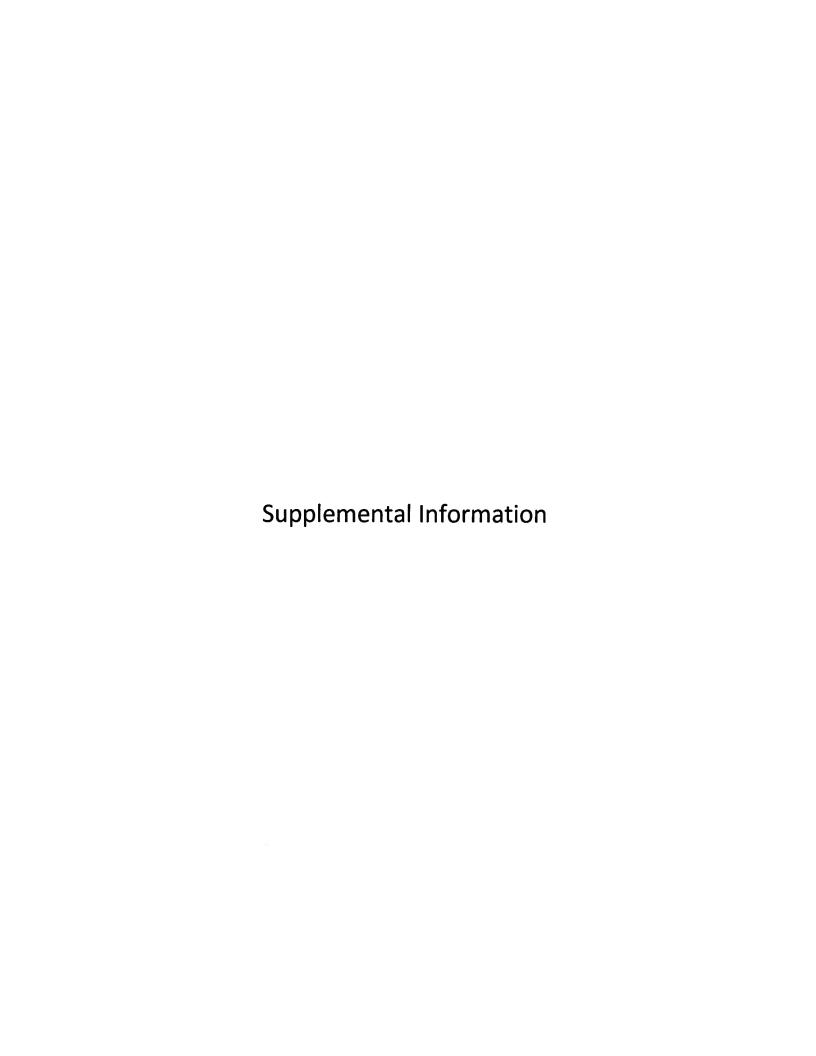
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Plant Allen 2014 Water Schematic





NPDES Supplemental Information

Allen Steam Station NPDES Permit #NC0004979 October 2014

1.0 General Information

Plant Allen utilizes waters from the Catawba River for condenser cooling and service water requirements. A brief discussion of each discharge follows. All flows are based on historical data when possible or pump design capacities and normal run-times.

2.0 Outfall Information

2.1 Outfall 001 - Condenser Cooling Water (CCW)

The CCW system is a once-through, non-contact cooling water system that removes heat rejected from the condensers and other selected heat exchangers and then discharges into the South Fork River. Each of the 5 units at Plant Allen has two condenser cooling pumps. The number of pumps used is dependent on unit load and intake temperatures with more pumps running with higher loads and intake temperatures.

Units 1 and 2 share a common cooling water supply tunnel served by a total of 4 CCW pumps. Units 3 and 4 also share a tunnel and 4 CCW pumps. Unit 5 has a separate tunnel and 2 CCW pumps. The common tunnel design enables three pumps to give Units 1 and 2 or 3 and 4 the equivalent of 1 ½ pump operation. The 1 ½ pump operation adds an economical range or flexibility when units are on partial load and when intake water temperatures are minimal.

Condenser Cooling Water Pump Capacities

Unit No.	1-Pump GPM	1.5-Pump GPM	2-Pump GPM
1	55,500	74,800	83,500
2	55,500	74,800	83,500
3	83,000	111,200	126,000
4	83,000	111,200	126,000
5	83,000	·	126,000

Note: Maximum cooling flow 545,000 GPM

All condenser tubes at Plant Allen are cleaned manually with metal or rubber plugs. Mechanical cleaning is required once a year for most units. A leak test is performed periodically on the condenser tubes. If leaks are suspected, then one method used to temporarily stop small leaks is to add sawdust to the CCW system, as previously approved by NC DENR. The sawdust is added at amounts that will plug the leaks and not result in an environmental impact. This is a temporary measure until the unit can come off-line so the leaks can be permanently repaired.

2.1.1 Asiatic Clam/Debris Filter Backwash

Water for the Unit 5 CCW water is filtered for any twigs, leaves, and other light debris, which passed through the intake screens. Asiatic clams, which are common in Lake Wylie and can clog the condenser tubes, are also captured in this filter. This filter is

backwashed once a week for 15 minutes. A maximum flow of 3000 GPD is realized. No additives are in the backwash water. The twigs, leaves, clams and other light debris collected in the debris filter are indigenous to the river and can be flushed back with no harmful environmental consequences.

2.2 Outfall 002 - Ash Basin

2.2.1 Stormwater run-off

Storm water run-off enters the ash basin from the ash basin's drainage area, the yard drainage sump, the coal yard sump, the FGD storm water basin and the landfill leachate sump. The powerhouse sump and the limestone storm water sump discharges its rainfall run-off into the yard drainage sump.

2.2.2 Sanitary Wastes

Sanitary waste at Plant Allen is treated in a septic tank with the effluent from the septic tank being discharged to the Ash Basin via the Coal Yard sump. Approximately 115 people are responsible for the load on this system. An average flow of 4850 GPD is treated by the system. The drinking water is supplied by City of Belmont Utilities Department.

2.2.3 Ash Sluice

Plant Allen has converted to a dry ash handling system. Ash collected in the electrostatic precipitators is transported by compressed air to two silos where ash is transferred to trucks for ultimate disposal in the newly constructed on-site landfill. Wet sluicing is still utilized during times of dry system upset. Bottom ash sluicing to the basin requires approximately 6.0 MGD.

Plant Allen presently has additional air pollution control systems installed on three units. Use of these systems entails the use of low concentrations of sulfur compounds. These systems aid in the collection of the ash in the electrostatic precipitators.

2.2.4 Recirculating Water System (RCW)

Plant Allen has 2 RCW systems: a chiller system and a pump cooling water system. Both systems use the biocide Nalco H-550 or similar products. In addition, the corrosion inhibitor Nalco CS-4710 or similar product is used. Generally, these systems are closed loop in nature, but may need to be drained occasionally. All such water would enter the floor drains and then be discharged to the ash basin.

2.2.5 Miscellaneous Waste Streams

2.2.5.1 Heat Exchanger Cleaning

Periodically, it may be necessary to clean the small heat exchangers with polyacrylamide, polyacrylate, sodium laurylsulfate and tri-sodium phosphate. All wastewater would be routed to the ash basin.

2.2.5.2 Condensate Polishers

Plant Allen utilizes condensate polishers which divert a portion of the normal condensate (closed system) flow through one of two cells per unit. The polishers provide filtration as well as ion exchange functions to remove or substantially reduce dissolved solids and suspended matter present in the condensate stream. The polishers require precoating with a combination of anion and cation resin. To facilitate precoating, 125-150 mL of a solution of polyacrylic acid (25%) is added to the precoat slurry. Upon resin exhaustion, the precoat is removed from the filters by water/air blasting and flushed to the ash basin via sumps. Condensate water is used to remove the exhausted precoat at the rate of:

- Unit 1 & 2 1558 gal/precoat
- Units 3, 4, & 5 2090 gal/precoat

A total average waste flow of approximately 980 GPD to the ash basin is realized.

2.2.5.3 Condenser Leakage Testing

<u>Fluorescing Dye Method</u> – Approximately 1 lb. of a disodium fluorescing dye added to 280,000 gals of demineralized water is used occasionally to test the condensers for leakage. All wastewater from the testing would be routed to the ash basin.

<u>Sulfur Hexafluoride Method</u> – Periodically, sulfur hexafluoride is injected into the condenser tubes to locate condenser tube leaks. Sulfur hexafluoride is a chemically inert, nonflammable, nontoxic gas with an extremely low water solubility. It is estimated that 150 grams of sulfur hexafluoride would be used during the leak detection process. Most of the sulfur hexafluoride would be volatilized during the process.

2.2.5.4 FGD Stormwater Sump

Stormwater collected at FGD site including: the dry ash handling facility, gypsum pile, WWTS area (not process water), stack, absorbers, switchgear building,

dewatering building, reagent prep building, and the control room area is routed to a large stormwater collection basin prior to being pumped to the ash basin.

2.2.5.5 Landfill Leachate collection discharge

Industrial Solid Waste landfill (Permit No. 36-12) is permitted to accept coal combustion byproducts (fly ash, bottom ash, gypsum, WWTS filter press sludge cake) consists of a double liner with leachate collection system. Collected leachate is pumped to ash basin.

2.2.6 Ash Basin Treatment

<u>Sulfuric Acid System</u> – An acid injection system utilizing 93% sulfuric acid is operated as needed to maintain pH level below 9.0 standard units.

<u>Sodium Hydroxide System</u> – A sodium hydroxide injection system utilizing 25% or 50% sodium hydroxide operated as needed to maintain pH level above 6.0 standard units.

2.2.7 Yard Drain Sump

The yard drain sump is a large concrete structure that has three level controlled pumps, which pump wastewater from Plant Allen to the ash basin. These pumps are operated on a rotating basis. The combined average flow from all sources tied to the yard drain sump is approximately 4.0 MGD. Listed below is a description of waste streams going to the yard drain sump:

2.2.7.1 Boiler Room Sumps (Units 1-4)

The water which flows to the boiler room sumps originates from such sources as floor wash water, boiler blowdown, water treatment waste, condensates, equipment cooling water, sealing water and miscellaneous leakage (refer to the attached schematic of water flow for individual flows). The effluent from the units 1 through 4 boiler room sumps is flushed to the yard drain sump. The effluent from the unit 5 boiler room sump is flushed to the power house sump, which is then flushed to the yard drain sump.

2.2.7.2 Turbine Room Sumps

The turbine room sumps accommodate flows from floor washing, leakage, and occasional condenser water box drainage. Effluent from units 1 through 5 turbine room sumps is flushed to the yard drain sump.

2.2.7.3 Limestone Unloading/Storage Area Sump

Limestone sump collects storm water from limestone unloading and storage area and routes to YD sump via PH sump discharge line.

2.2.7.4 Power House Sump (Unit 5)

The wastes, which enter the floor drains at Plant Allen, accumulate in the boiler room sumps and turbine room sumps. The water which flows to the boiler room sumps originates from such sources as floor wash water, boiler blowdown, water treatment waste, condensates, equipment cooling water, sealing water and miscellaneous leakage. Effluent from the unit 5 boiler room sump is routed to the powerhouse sump, which is then flushed to the yard drain sump. This sump also receives storm water from various drains located on the north end of the powerhouse.

2.2.8 Water Treatment System

The water treatment wastes consist of sedimentation, filter backwash, reverse osmosis (RO) concentrate, demineralizer regeneration wastes and boiler blowdown. The makeup water treatment system is comprised of a clarifier, two pressure filters, two activated carbon filters, pre RO filters, a reverse osmosis unit and one set of demineralizers. Make-up water is used in the boilers and closed cooling systems.

Clarifier:

The clarifier has an average production of 0.252 MGD. Caustic or ferric sulfate/ferric chloride are used to affect precipitation and thus remove suspended solids from the raw river water. Desludging of the clarifier takes place approximately 8% of the unit run-time with an average volume of 2300 GPD going to the ash basin.

Pressure Filters:

There are two pressure filters which follow the clarifier in the water treatment process. These filters are backwashed once per week with a waste flow of 11,000 gallons per backwash. Each pressure vessel will contain 84 ft³ of anthracite, 50 ft³ of quartz, 25 ft³ of garnet and 41 ft³ of garnet/quartz support media. Each vessel will use product water to backwash at a rate of 750 gpm. On average, both vessels are backwashed once per week. The contents of the pressure filters will be changed out, as internal maintenance requires, and the used filter medium will be sluiced to the ash basin.

Activated Carbon Filters:

In addition to the pressure filters, there are two activated carbon filters. These filters are backwashed twice per month. Approximately 30,000 gallons of water are required to backwash each of these filters. The activated carbon filters are composed of approximately 250 ft³ of granular activated carbon (coal). The spent filter medium is changed out yearly and sluiced to the ash basin.

Reverse Osmosis (RO) Unit:

A RO unit is used to decrease the conductivity in the filtered water, thereby increasing the efficiency of the demineralizers and reducing the amount of chemical needed for demineralizer regeneration. During operation, the unit has a continual blowdown of 60 gal/min, which is discharged to the ash basin. The RO unit is cleaned on a quarterly basis with the waste going to the yard drains and eventually the ash basin. During a cleaning, approximately 30 lbs of a sulfamic acid cleaner along with 5 gallons of biocide, 2 liters of sodium hydroxide, and 0.5 gallons of sodium lauryl sulfate is used

Demineralizer:

The demineralizer consists of two mixed-bed cells. Only one of these cells is operated at any one time. The cell which is in operation is regenerated approximately once every 7-14 days of operation. A regeneration requires 42 gallons of sulfuric acid (78-80%) and 150 gallons of 50% sodium hydroxide. An average dilute waste chemical and rinse flow of 20,000 gal is realized. The dilute acid and caustic are discharged to the floor drains simultaneously through the same header for neutralization purposes. All regeneration wastes are flushed to the ash basin. The demineralizer resin is changed out approximately once every 10 years and the spent resin is sluiced to the ash basin. Approximately 1 milliliter of the surfactant Triton CF-54 or similar product is added to the new resin to improve separation.

Boiler Blowdown:

Each of the five boilers at Plant Allen blowdown at an average rate of approximately 500 lbs. of steam per hour. The blowdown is allowed to flash in a blowdown tank. Most of the blowdown is vented to the atmosphere with a minimal amount of condensate discharged to the boiler room sump. The average condensate flow to this sump is 0.004 MGD. Hydrazine is maintained at a concentration of 25 ppb in the condensate system for deoxygenation. A minute amount of hydrazine (<10 ppb) may be present in the condensate flow to the boiler room sump.

2.2.9 Preheater Washes

Preheaters are backwashed with raw water on an as needed basis to remove ash and corrosion products. There are 12 preheaters at Allen that would require approximately 100,000 gallons of backwash water each. The backwash water is routed to the ash basin through the yard drain sump.

2.2.10 Laboratory Wastes

The plant chemistry and the FGD chemistry laboratories on-site perform a variety of water analyses and routine sample collections. Therefore several chemicals are used in the lab in small quantities for sample preservation, bottle rinsing, equipment calibration, conductivity analyses, etc. The wastes are flushed down the sink and discharged into the yard drain sump and then pumped to the ash basin. Some of the laboratory chemicals are as follows: ammonia molybdate, acetic acid, ferric sulfate, hydrochloric acid, monoethylamine, nitric acid and potassium hydroxide.

2.2.11 Selective Non-Catalytic Reduction (SNCR)

As part of the compliance with the North Carolina Clean Air Initiative (NCCAIR), Allen has installed a urea-based "trim" Selective Non-Catalytic Reduction (SNCR) systems on all five units. The trim SNCR systems are expected to reduce NOx emissions by approximately 30%. SNCR systems operate by injecting urea into the upper section of the boiler where a chemical reaction occurs to reduce the NOx to water and nitrogen. Some residual ammonia will be collected on the fly ash in the electrostatic precipitators and a small amount will be carried to the ash basin. However, the operation of the SNCR system is not expected to require additional treatment capabilities to ensure compliance with NPDES permit limits.

2.2.12 Flue Gas Desulfurization (FGD)

A Wet Flue Gas Desulfurization (FGD) system has been installed at Allen for the reduction of SO_2 from the stack gas. The following provides a description of the FGD system at Allen.

In a Wet Scrubber system, the SO_2 component of the flue gas produced from the coal combustion process is removed by reaction with limestone-water slurry. The particular system used at Allen collects the flue gas after it passes through the electrostatic precipitator and routes the gas into the absorber tank. As the gas rises through the tank to the outlet at the top, the gas passes through a spray header. A slurry of water and limestone droplets is continually sprayed through this header into the stream of flue gas. The SO_2 in the flue gas reacts with the calcium in the limestone and produces SO_3 . The SO_3 slurry falls to the bottom of the tank where a stream of air is injected to oxidize the slurry to form gypsum ($CaSO_4*2H_2O$). The gypsum slurry is drawn off the

absorber tank and subsequently pumped to a vacuum belt filter. Part of the process water from the FGD system is blown down in order to maintain the FGD water chemistry within the FGD system specifications. This water is treated in a wastewater treatment system that discharges to the ash basin via internal Outfall 005.

The FGD system has a material handling system that supplies limestone to the scrubber and a gypsum storage area for the gypsum removed from the process. The limestone comes onto the site by rail and is then transferred to the FGD site via a covered conveyor. Runoff from the storage area is routed to the ash basin. The gypsum is routed from the FGD tank to a dewatering belt and then to a covered conveyor belt that will carry it to a storage pile. The runoff from this area is also routed to the ash basin.

2.2.13 Seeps

There have been approximately nine (9) seeps identified associated with the ash basin at the Allen Station. These seeps contribute a minimal amount of flow into Lake Wylie and the Catawba River.

2.3 Outfall 002A - Coal Yard Sump Overflow

An overflow pipe that directs flow from the sump to the Catawba River was included in the construction of the coal yard sump. This modification was implemented to prevent submergence and damage of the pump motors within the sumps in the event that all pumps failed or redundant power supply lines could not be restored in a timely manner.

2.4 Outfall 002B - Powerhouse Sump Overflow

An overflow pipe that directs flow from the sump to the ground was included in the construction of the powerhouse sump. This modification was implemented to prevent submergence and damage of the pump motors within the sumps in the event that all pumps failed or redundant power supply lines could not be restored in a timely manner. If enough water overflows, the waste water could potentially discharge into the Catawba River. Overflow has not occurred during the last permit cycle.

2.5 Outfall 003 - Misc Equipment Cooling & Seal Water

Outfall 003 discharges into the CCW discharge canal. The discharge consists of cooling water from units 4 and 5 boiler feedpump hydraulic coupling coolers and other miscellaneous equipment cooling. This water is once-through, non-contact cooling water withdrawn from the service water system.

Approximately 10,000 gpd of bearing cooling water for the ash line booster pump is routed back to the discharge canal via a stormwater outfall in the vicinity of outfall 003. The water is once through, non-contact cooling water withdrawn from the service water system.

2.6 Outfall 004 – Equipment Cooling & Intake Screen Backwash

2.6.1 Equipment Cooling Water

Cooling water for units 1, 2 & 3 boiler feed pump hydraulic coupling coolers and other miscellaneous equipment is discharged through outfall 004. This water is once-through, non-contact water drawn from the service water system. In addition, water from a vehicle rinse-down area is directed to this outfall. The rinse water contains no soaps or other additives. Allen has also added a chiller system for comfort cooling that is a once-through, non-contact cooling water system and discharges back to the river via outfall 004.

2.6.2 Intake Screen Backwash

The intake screens at Plant Allen are flushed on an "as needed" basis. Backwash usually averages 2 hours per shift. The average volume required is 0.053 MGD. The large debris floating on the river is caught on the parallel bar screens. This trash is collected and disposed of in a landfill. The silt, twigs, leaves and other light debris collected on the rotating screens are indigenous to the river and are therefore flushed back into the river with no harmful environmental consequences.

2.7 (Internal) Outfall 005 – WWTS Effluent Discharge

FGD purge water is routed to a WWTS consisting of a physical-chemical process designed to precipitate heavy metals and remove suspended solids. The clarified product water is routed to a series of bioreactors designed for selenium and nitrate removal. The bioreactor product water is discharged to the ash basin via Outfall 005.

3.0 Hazardous and Toxic Substances

3.1 Hazardous and Toxic Substances Table 2c-3

At Plant Allen, the potential for toxic and hazardous substances being discharged is very low. In reference to Item V-D of Form 2-C, the substances identified under Table @c-3 that may be in the discharge are as follows: Acetaldehyde, Asbestos, Butyl Acetate, Cyclohexane, Diuron, Epichlorohydrin, Formaldehyde, Monoethyl Amine, Propylene Oxide, Pyrethrins, Vinyl Acetate, and Xylene.

Other - During the course of the year products such as commercial cleaners and laboratory reagents may be purchased which contain low levels of a substance found in Table 2c-3. It is not anticipated that these products will impact the ash basin's capacity to comply with existing toxicity limits, since their concentrations are extremely low.

3.2 40 CFR 117 and CERCLA Hazardous Substances

The following table identifies hazardous substances located on-site that may be released to the ash basin during a spill in quantities equal to or greater than the reportable quantity (RQ) levels as referenced in 40 CFR 117, 302 and 355. This list is provided under 40 CFR 117 and the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). These values below represent the maximum quantities onsite that could be released at one time and sent to the ash basin. They do not reflect quantities that are discharged through typical use.

Allen Steam Station Hazardous Substances in Excess of RQ

Table 3.2

SUBSTANCE	QUANTITY	SOURCE
Benzene	83 lbs	Gasoline Tank
Ethylbenzene	2,737 lbs	Diesel Fuel Tanks
Hydrazine	499 lbs	Warehouse
Napthalene	41,700 lbs	Fuel Oil Tanks
Sodium Hydroxide	1,181 lbs	Ash Basin/Warehouse #3 Fan
Sodium Nitrite	800 lbs	Warehouse/Powerhouse
Sulfuric Acid	44,277 lbs	Powerhouse
Xylene (Mixed Isomers)	419 lbs	Gas Tank

4.0 Allen Steam Station 316 (a) Determination

During the term of this permit Duke Energy has continued to monitor the receiving waters of Lake Wylie in an attempt to determine if the Lake still supports a balanced and indigenous population. The attached Balanced and Indigenous Population Report (BIP) continues to indicate that Lake Wylie continues to support a balanced and indigenous population of fish and macro-invertebrates. Therefore, Duke energy request that the thermal variance for the Allen Steam Station be continued for the next permit cycle.

5.0 Allen Steam Station 316 (b)

Please see the attached alternate schedule request.