

A NUENERGEN C OMPANY

May 3, 2023

Ms. Denise Grattan

Environmental Analyst 2 Division of Environmental Permits NYSDEC Region 2 47-40, 21st Street – 4th Floor Long Island City, NY 11101

- Re: NYC HH BELLEVUE HOSPITAL 462 FIRST AVE, NEW YORK, NY 10016
 - DEC ID: 2-6206-00032/00004
 - Air State Facility Renewal and Modification Application

Dear Ms. Grattan:

Attached is an Air State Facility Permit Renewal and Modification for NYC Health and Hospitals – Bellevue Hospital (DEC ID: 2-6206-00032/00004). In addition to permit renewal, the hospital is in the process of installing two (2) new natural gas fired co-generation Engines – Caterpillar G3516 each with 1982 kW rating. Also in order to meet NYSDEC's part 222 requirements, the following generators are participating in Demand Response (DR) Program: Four (4) Cat C27 generators on 13th floor, one (1) Caterpillar 3512C located on the ER Roof and One (1) Cummins 3100 located in basement. The rest of the generators (three) are for emergency purpose only and exempt.

This submission includes CLCPA Analysis and a draft Public Participation Plan per CP-29.

Should you have any further queries, do not hesitate to contact me at 914-788-4165 or email me at madalyn@eespc.com.

Very truly yours,

ENVIRONMENTAL AND ENERGY SOLUTIONS, INC.

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Madalyn Bozinski Senior Environmental Engineer

New York State Department of I	Environmental Co	onservatio	on	STATE	YORK	Departm	ent of
Air Permit Application			<u> </u>	OPPOR	TUNITY	Conserva	ition
DEC ID	Applicati	on ID			Арр	lication T	уре
					× State	Facility	Title V
	Section I - Certi	ification		of the end of the of	410001000000000000000000		and the second second second
	Certificatio	on					
assure that qualified personnel properly gather and all at assure that qualified personnel properly gather and evalua gathering the information required to complete this applic penalties for submitting false information, including the po	tachments were prepared und ate the information submitted. ation, I believe the information ossibility of fines and imprisonr	ler my direction Based on my in n is true, accura nent for knowin	or supervision in quiry of the perso te, and complete. g violations.	accordar on or per: Tam aw	ice with a sons direo are that t	a system desig ctly responsib here are sign	gned to Ile for ificant
Responsible Official Patrick Benn			Title	Dire	ector c	of Engine	ering
Signature TOP			Date	4/2	26/2	3	
	Professional Engineer	Certificatio	nto				
I certify under penalty of law that I have personally examinate attachments as they pertain to the practice of engineering of fines and imprisonment for knowing violations.	ed, and am familiar http://www. lam aware that there are we though the second s	Satements and Rificant trenaltie	And contention submitted submitted submitted submitted submitted submitted submitted submitted submitted submit	nitted in f false info	this docu rmation,	ment and all i including the	its possibility
Professional Engineer Rengasarity Rasina			L INVS	License	No.	0/2//6-1	
Signature A CAMAM'	M SE	OZZTTE 1	S Date	•	4/2	7/202	3
Sectio	on II - Identificatio	and fild fu	nation				
New X Renewal X Significa	Type of Permit Action	ninistrativo /	mandmont	Mir	or Mor	lification	時代現金務局
Application for the construction of a n	ew facility × Applica	ation involve:	s the construc	tion of	new en	nission unit	t(s)
	Facility Inform	ation				e de fedre d	
Name NYC-HHC/Bellevue Hospital							
Location Address 462 First Avenue							
× City / Town / Village New York					Zip 1	0016	
Owner/	Firm Information			in de	Busin	iess Taxpa	ayer ID
Name The New York City Health and Ho	spitals Corporation				EX	- 1 2 8	3 0 7
Street Address 125 Worth Street							
City New York	State/Province NY		Country US	A	z	ip 1001	3
Owner Classification: Federal State	e 🛛 🗶 Municipal	[—] Corpora	tion/Partners	hip	In	dividual	
	Owner/Firm Contact I	Informatior	1	2. SIG-1. \			
Name Patrick Benn				Phone	(212	2)562-629	95
E-mail Address bennp4@nychhc.org				Fax			
Affiliation NYC-HH Bellevue Hospital			Title [Directo	or of E	ngineerin	g
Street Address 462 First Avenue							
City New York	State/Province NY		Country US	A	z	ip 10016	3
	Facility Contact Info	ormation	in al sectores				
Name Patrick Benn				Phone	(212	2)562-629	95
E-mail Address bennp4@nychhc.org				Fax			
Affiliation NYC-HH Bellevue Hospital		-	Title D	Directo	r of Er	ngineerin	g
Street Address 462 First Avenue							
City New York	State/Province NY		Country US	A	z	ip 10016	6
Version 1 - 1/11/2021					S		1





Project Description

Continuation Sheet(s)

NYC HHC Bellevue Hospital is currently an Air State Facility. This application is for the renewal of the hospital's State Facility Permit. In addition to the renewal, the hospital is in the process of installing two (2) new natural gas fired co-generation Engines - Caterpillar G3516 each with 1982 kW rating. Also in order to meet NYSDEC's part 222 requirements, the following generators are participating in Demand Response (DR) Program. Four (4) Cat C27 generators on 13th floor, one (1) Caterpillar 3512C located on the ER Roof and One (1) Cummins 3100 located in basement. Rest of the generators (three) are for emergency purpose only.

Section III - Facility Information

				Fac	cility Classificat	ion			
	al Industria	ΙL	Jtility						
			Affec	cted State	es (Title V Appl	ications Only)			
	Verm	ont	Massachusetts	Rhode	Island Penns	sylvania Triba	Il Land:		
	Ne	ew Hamp	shire × Connec	ticut ×	New Jersey	Ohio Tribal La	and:		<u></u>
		SIC Cod	de(s)			NA	ICS Code(s)		
8	3062								
				Fa	cility Description	on		Contin	uation Sheet(s)
NYC HH In additi Caterpill are part on the E	IC Bellevue I on to the ren lar / G3516H icipating in D R Roof and 0	Hospital is ewal, the , each wit emand R One (1) C	s currently an Air S hospital is in the pi h 1982 kW rating. esponse (DR) Prog Cummins 3100 loca	tate Facilit rocess of i Also in ord gram. Four Ited in the l	y. This applicatior nstalling two (2) n ler to meet NYSD (4) Cat C27 gene basement. Rest o	n is for the renew ew natural gas f EC's part 222 re erators on 13th fl f the generators	val of the hospital's ired co-generation quirements, the fol loor, one (1) Cater (three) are for eme	State Fa Engines lowing ge pillar 3512 ergency p	cility Permit. - enerators 2C located eurpose only
			Complian	nce State	ments (Title V A	Applications O)nly)		
If certify If one or applicati 8 of this <u>complian</u> This f permit, o For al facility w Comp to each a	more emiss ion (the 'NO' form along v nce with all a acility will co except those I emission un vill meet such pliance certifi applicable re	ion units box mus with the c applicable ontinue to e emission nits subje h require ication re equireme	at the facility are at the facility are to be checked), the compliance plan in e requirements, co be operated and n units referenced ect to any applicab ments on a timely eports will be subn nt, and the metho	not in com e noncomp offormation omplete th d maintain d in the cou ple require v basis. nitted at le od used to	a in compliance v apliance with all a plying units must a required. For all e following: ed in such a man mpliance plan po ments that will b east once per yea determine the st	applicable requi be identified ir lemission units ner as to assure ortion of this app ecome effective ur. Each report v atus.	rements at the tir n the "Compliance at the facility that e compliance for t plication. e during the term will certify complia	res ne of sigr Plan" blo t are oper he durati of the pe ance statu	no ning this ock on page rating <u>in</u> on of the rmit, this us with respect
			Facil	lity Appli	cable Federal R	equirements		Contin	uation Sheet(s)
Title	Туре	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	201	5	1	а				
6	NYCRR	201	5	4					
6	NYCRR	227	1	3	а				
				-					
					toto Only Dogy	iversente		Cantin	
Titla	Туре	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NVCPP	227	2	1	d	Turugraph	Suppliagraph	Clause	Jubelduse
		221	4	4	u -	0			
0	NICKK	221	1	2	a	۷			
6	NYCRR	225	1	2	f				
6	NYCRR	225	1	6	f				



2 - 6	2 0 6 -	000	3 2									
		<u> </u>			Facili	ty Co	mpliance Cert	tificatio	n		Continu	uation Sheet(s)
						İ	Rule Citation					
Title	Туре	Part	Sub	part	Sec	tion	Subdivision	Parag	raph	Subparagraph	Clause	Subclause
6	NYCRR	227	2	2		1	d					
Applic	cable Federa	al Require	ment	¥ Can	ning	C	AS Number			Contaminant	Name	
State	Only Requir	ement		~ Cap	ping	N	Y210-00-0		(DXIDES OF NI	FROGE	١
					IV	/lonit	oring Informa	ition				-
Wo	ork Practice	Involving	Specific (Operation	1S Comr	Am	bient Air Monit	toring	× Ke	cord Keeping/Mai	ntenance	Procedures
The to	The total facility wide NOx Emissions will be limited to 24.9 tons/year											
Work Practice Process Material												
Туре	Code	Code		Proces			Reference Te	est Metho	d			
Monitored Parameter Manufacturar's Name (Model Number												
Code Description Manufacturer's Name/Model Number												
	Li	mit			Codo	_		Li	imit Un	nits		
	pper		ower		.00e	+						
	4.9	ing Meth	od		30	Mc	phitoring Freque	oncy	TUN		a Poquire	monts
Code	Averagi	Descrip	otion		Code		Descrip	otion		Code	Descr	iption
15		CALEN	IDAR		09	T	ANNUA	ALLY		09	ANNU	JALLY
					Fac	ility	Emissions Sun	nmary			Continu	uation Sheet(s)
CAS	Number			Cor	tamin	ant N	lamo			Potential to Emit	Actu	ual Emissions
CAS	Number			Con	tamm	antiv	ame			(tons/yr)	(r	ounds/yr)
0NY07	75 - 00 - 5				PM	-10				51.64		5513.00
0NY75	50 - 02 - 5				PM	-2.5				51.64		5513.00
00744	46 - 09 - 5	Γ		S	Sulfur I	Dioxic	Je			91.57		2021.80
0NY21	10 - 00 - 0			Oxi	des of	Nitrc	ogen			1396.1		37,668.6
00063	30 - 08 - 0			Car	rbon N	/ono	xide			331	6	4380
00743	7439 - 92 - 1 Lead (elemental)									0.00		0.00
0NY99	98 - 00 - 0		Tc	otal Volat	ile Org	ganic (Compounds			135.9		43133.8
0NY10	0 - 00 - 0	<u> </u>		Total Haz	zardou	ıs Air	Pollutants			6.654		8663.02
0NY75	50 - 00 - 0	1		Carbon	Dioxic	Je Equ	uivalents			250238.8131	41	301021
									\neg			
		<u> </u>										
┣───		<u> </u>							-+			



DEC ID 2 6 2 0 6 0 0 0 3 2

			Emission Unit Descripti	on		× Contin	uation Sheet(s)				
Emission Unit	U -	0 0 0 1									
This unit con	sists	of Six (6) generators	that participate in c	oordina	ated deman	d response	program				
Four (4) of th	e six	concentrators are loca	ted on the 13th floor	and er	nit via a con	nmon stack	Two				
other generat	tors a	are in the Basement	and on the ER Roof	and en	nit via indep	endent stad	sks.				
<u> </u>											
Dudidin - ID	1	D1.1	Building Information		Law atta (ft)	Continu	uation Sheet(s)				
		Bulla	ng Name		Length (It)	wiath (ft)	Orientation				
1		Main	Building								
2		Main	Building								
Emission Unit											
	1	E	mission Unit Emissions S	ummary	/	× Continua	tion Sheet(s)				
CAS Number	r l		Contamin	ant Nam	<u>۹</u>						
0NY075-00-	-0		PARTICULAT	E MATT	- ER-10						
	-	Potentia	I to Emit		Actua	l Emissions					
ERP (lbs/yr)		(lbs/hr)	(lbs/yr)		(lbs/hr)	(os/yr)				
73321		8.37	73321		8.37	8	337				
CAS Number	r		Contamin	ant Nam	e						
0NY750-02-	-5		PARTICULATE	E MATT	ER-2.5						
		Potentia	l to Emit		Actua	l Emissions					
		(lbs/hr)	(lbs/yr)		(lbs/hr)	(os/yr)				
73321		8.37	73321		8.37	8	337				
CAS Number	r		Contamin	ant Nam	e						
007446-09-	·5		SULFUR	DIOXIC	Ε						
FRP (lbs/yr)		Potentia	ll to Emit		Actua	l Emissions					
		(lbs/hr)	(lbs/yr)		(lbs/hr)	(os/yr)				
137182		15.66	137182		15.66	1	5.66				
CAS Number	r		Contamin	ant Nam	е						
0NY210-00-	-0		OXIDES OF	NITRO	GEN						
FRP (lbs/yr)		Potentia	l to Emit		Actua	l Emissions					
		(lbs/hr)	(lbs/yr)		(lbs/hr)	(os/yr)				
2086106		238.14	2086106		238.14	23	3814				







Department of Environmental Conservation



Emission Unit U - 0 0 0 1	Emission Unit Emissions Summary (continuation)										
CAS Number		Contamina	ant Name								
0NY630-08-0		CARBON M	IONOXIDE								
EPD (lbc/yr)	Potenti	al to Emit	Actual E	missions							
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
449388	51.3	449388	51.3	5130							
CAS Number		Contamina	ant Name								
0NY750-02-5		TOTAL VOLATILE OR	GANIC COMPOUNDS								
FRP (lbs/vr)	Potenti	al to Emit	Actual E	missions							
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
170294	19.4	170294	19.4	1944							
CAS Number		Contamina	ant Name								
007446-09-5		TOTAL HAZARDOU	S AIR POLLUTANTS								
FRP (lbs/vr)	Potenti	al to Emit	Actual E	missions							
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
3034.2	0.35	3034.2	0.35	34.6							
CAS Number		Contamina	aminant Name								
FRP (lbs/vr)	Potenti	al to Emit	Actual E	missions							
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
CAS Number		Contamina	ant Name								
FRP (lbs/vr)	Potenti	al to Emit	Actual E	missions							
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
CAS Number		Contamina	ant Name								
FRP (lbs/vr)	Potenti	al to Emit	Actual E	missions							
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
CAS Number		Contamina	ant Name								
			Actual Emissions								
FRP (lbs/vr)	Potenti	al to Emit	Actual E	missions							
ERP (lbs/yr)	Potenti (lbs/hr)	al to Emit (lbs/yr)	Actual E (lbs/hr)	lbs/yr)							



Department of Environmental Conservation



Emission Unit	Emis	ssion Unit Emissions S	ummary (continuatior	ו)							
CAS Number		Contamin	ant Name								
0NY075-00-5		PARTICU	LATES-10								
	Potenti	al to Emit	Actual E	missions							
ERP (lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
4964	0.57	4964	0.57	4533							
CAS Number		Contamin	ant Name								
0NY750-02-5		PARTICUI	LATES-2.5								
EPD (lbs/yr)	Potenti	al to Emit	Actual E	missions							
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
4964	0.57	4964	0.57	4533							
CAS Number		Contamin	ant Name								
007446-09-5		SULFUR I	DIOXIDE								
FRP (lbs/vr)	Potenti	Potential to Emit Actual Emissions									
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
201.9	0.023	201.9	0.023	184.4							
CAS Number		Contamin	ant Name								
0NY210-00-0		OXIDES OF	NITROGEN								
FRP (lbs/vr)	Potenti	al to Emit	Actual E	missions							
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
106509	1.22	10650.9	1.22 9726.8								
CAS Number		Contamin	ant Name								
0NY630-08-0		CARBON M	ONOXIDE								
ERP (lbs/vr)	Potenti	al to Emit	Actual E	missions							
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
63905	7.29	63905	7.29	58361							
CAS Number		Contamin	ant Name								
0NY750-02-5		TOTAL VOLATILE OR	GANIC COMPOUNDS								
ERP (lbs/yr)	Potenti	al to Emit	Actual E	missions							
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
44733.9	5.107	44733.9	5.107	40852.9							
CAS Number		Contamin	ant Name								
007446-09-5		TOTAL HAZARDOU	S AIR POLLUTANTS								
ERP (lbs/yr)	Potenti	al to Emit	Actual E	missions							
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)							
9750.5	1.1131	9750.5	0.8572	8904.6							

DEC ID



2 - 6 2 0	6 - 0	0 0	3 2											
					Emiss	sion Poin	t Info	ormation	۱		×	Continuation Sheet(s)		
Emission Poin	t 0 0	0 0	1											
Ground	Heig	ht (ft)	Height Ab	ove	Inside D	Diameter	Exit	Temp. (°I	=)	(Cross Se	ection		
Elevation (ft)		. ,	Structure	(ft)	(i	n)			'	Length (in)		Width (in)		
10	22	20	20					850		18		18		
Exit Velocity (FPS)	Exit (AC	Flow FM)	NYTM (E)	(KM)	NYTM ((N) (KM)	E	Building		Distance to Prop Line (ft)	erty	y Date of Removal		
138	1862	29.66	4510.	2	58	6.5		1						
Emission Poin	t 0 0	0 0	2											
Ground	Heig	ht (ft)	Height Ab	ove	Inside D	Diameter	Evit	Temn (°	=)	(Cross Se	ection		
Elevation (ft)	11018		Structure	(ft)	(i	n)	LAIL	Temp. (T	'	Length (in)		Width (in)		
10	14	48	90		(6		850						
Exit Velocity (FPS)	Exit (AC	Flow FM)	NYTM (E) (KM) NYTM (N) (KM				E	Building		Distance to Prop Line (ft)	erty	Date of Removal		
790.35	931	4.83	4510.	2	58	6.5		2						
Emission Poin	t 0 0	0 0	3											
Ground	Ηρίσ	ht (ft)	Height Ab	ove	Inside D	Diameter	Exit Temp (^o E)			(Cross Se	ection		
Elevation (ft)	Ticigi		Structure	Structure (ft) (in)		n)	EXIL	Temp. (-)	Length (in)		Width (in)		
10	22	20	20	20		6		850						
Exit Velocity (FPS)	Exit (AC	Flow FM)	NYTM (E)	(KM)	NYTM ((N) (KM)	E	Building		Distance to Prop Line (ft)	erty	Date of Removal		
474.21	558	8.90	4510.2	2	58	6.5	2							
				En	nission S	ource/C	ontro	l Inform	ati	ion	×	Continuation Sheet(s)		
Emission So	ource	[Date of	Da	ate of	Date	of		Cor	ntrol Type		Manufacturer's		
ID	Туре	Cor	struction	Ope	eration	Remo	val	Code		Description	Name/Model Number			
0 5 0 0 1	С		2008	2	800						C	aterpillar C 27		
Design			Design Ca	apacity	y Units				Wa	aste Feed		Waste Type		
Capacity	Code			Descr	iption			Code	_	Description	Code	Description		
7.50	25		Millio	nBI	J per H	our	6							
	Type		Jate of	Da One	ate of	Date Remo	OT Val	Code	Cor	Description	Nar	Manufacturer's		
		001	2008	2	008	Kenio	var	couc	-	Description	C	aternillar C 27		
Design	0	<u> </u>	Design Ca	anacity	v Units				Wa	aste Feed		Waste Type		
Capacity	Code		Designition	Descr	iption			Code		Description	Code	Description		
7.50	25		Millio	n BTI	J per H	our								
Emission So	ource	[Date of	Da	ate of	Date	of		Cor	ntrol Type		Manufacturer's		
ID	Туре	Cor	struction	Оре	eration	Remo	val	Code		Description	Nar	me/Model Number		
0 S 0 0 3	С		2008	800		_				С	aterpillar C 27			
Design			Design Ca	apacity	y Units				Wa	aste Feed		Waste Type		
Capacity	Code			Descr	iption			Code		Description	Code	Description		
7.50	С		Millio	n BTI	J per Ho	our								





Image: marge of the matrix		Emission Point Information (continuation)											
Ground Elevation (ft) Height (ft) Height Above Structure (ft) Inside Dameter (in) Exit Temp. (°F) Cross Section 10 185 170 24 850	Emission Unit	U - 0 0	0 0 2			Emission Po	oint 0 0 0 0 4						
Elevation (ft) (ft) Structure (ft) (in) (°F) Length (in) Width (in) 10 185 170 24 850 → > </td <td>Ground</td> <td>Height</td> <td>Height Above</td> <td>Inside Diameter</td> <td>Exit Temp.</td> <td>Cross S</td> <td>Section</td>	Ground	Height	Height Above	Inside Diameter	Exit Temp.	Cross S	Section						
10 185 170 24 850 Image: matrix state	Elevation (ft)	(ft)	Structure (ft)	(in)	(°F)	Length (in)	Width (in)						
Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (M) NYTM (N) (M) Building (M) Distance to Property Line (ft) Distance to Property Line (ft) Distance to Property Line (ft) Distance to M = 1 Distance to D = 1 D = 1 I<	10	185	170	24	850								
(Inf) (Kin) (Kin) <t< td=""><td>Exit Velocity</td><td>Exit Flow</td><td>NYTM (E)</td><td>NYTM (N)</td><td>Building</td><td>Distance to Property Line (ft)</td><td>Date of Removal</td></t<>	Exit Velocity	Exit Flow	NYTM (E)	NYTM (N)	Building	Distance to Property Line (ft)	Date of Removal						
Emission Unit - Image: Construction of the co	42.29	7975.15	4510.2	586.5	ED								
Ground Elevation (ft) Height (ft) Height Above Structure (ft) Inside Diameter (in) Exit Temp. (°F) Cross Section Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building Distance to Property Line (ft) Date of Removal Emission Unit - - - - - - Ground Elevation (ft) Height (ft) Height Above Structure (ft) Inside Diameter (in) Exit Temp. (°F) Cross Section - Ground Elevation (ft) Height (ft) Height Above Structure (ft) Inside Diameter (in) Exit Temp. (°F) Cross Section - Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building Distance to Property Line (ft) Date of Removal Emission Unit - - - - - - Ground Elevation (ft) Height (ft) Height Above Structure (ft) Inside Diameter (in) Exit Temp. (°F) Cross Section - Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building Distance to Property Line	Emission Unit					Emission Pc	bint						
Elevation (ft) (ft) Structure (ft) (in) (°F) Length (in) Width (in) Exit Velocity (FPS) Exit Flow (ACFM NYTM (E) (km) NYTM (N) (km) Building Distance to Property Line (ft) Date of Removal Property Line (ft) Date of Removal Property Line (ft) Emission Unit Ground Elevation (ft) Image: Height Above (fPS) Height Above (km) Inside Diameter (in) Exit Temp. (°F) Cross Section Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building (km) Distance to Property Line (ft) Date of Removal Property Line (ft) Emission Unit (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building (°F) Distance to Property Line (ft) Date of Removal Property Line (ft) Emission Unit (FPS) Image: Meight Above (ACFM) Image: Meight Above (km) Image: Meight Above (km) Exit Temp. (m) Cross Section Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building Distance to Property Line (ft) Date of Removal Property Line (ft) Exit Velocity (FPS) Exit Flow (ACFM) Meight Above (km) Image: Property Line (ft) <td>Ground</td> <td>Height</td> <td>Height Above</td> <td>Inside Diameter</td> <td>Exit Temp.</td> <td>Cross S</td> <td>Section</td>	Ground	Height	Height Above	Inside Diameter	Exit Temp.	Cross S	Section						
Lem Lem MYTM (P) (km) NYTM (P) (km) Building Distance to Property Line (ft) Date of Removal Emission Unit _ </td <td>Elevation (ft)</td> <td>(ft)</td> <td>Structure (ft)</td> <td>(in)</td> <td>(°F)</td> <td>Length (in)</td> <td>Width (in)</td>	Elevation (ft)	(ft)	Structure (ft)	(in)	(°F)	Length (in)	Width (in)						
Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building (km) Distance to Property Line (ft) Date of Removal Emission Unit													
Emission UnitImage: matrix of the symbol of th	Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (km)	NYTM (N) (km)	Building	Distance to Property Line (ft)	Date of Removal						
Emission Unit - Image: Construct of the construct													
Ground Elevation (ft) Height Above Structure (ft) Inside Diameter (in) Exit Temp. (°F) Cross Subscription Elevation (ft) (ft) Structure (ft) Inside Diameter (in) 0°F) Length (in) With (in) Exit Velocity (FPS) Exit Form (ACFM NYTM (E) (km) NYTM (N) (km) Building Distance to Property Line (ft) Distance to Property Line (ft) </td <td>Emission Unit</td> <td>-</td> <td></td> <td></td> <td></td> <td>Emission Pc</td> <td>pint</td>	Emission Unit	-				Emission Pc	pint						
Elevation (ft) (ft) Structure (ft) (in) (°F) Length (in) Width (in) Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building Distance to Property Line (ft) Date of Removal Emission Unit Date of Removal	Ground	Height	Height Above	Inside Diameter	Exit Temp.	Cross S	Section						
	Elevation (ft)	(ft)	Structure (ft)	(in)	(°F)	Length (in)	Width (in)						
Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building □ istance to Property Line (ft) Date of Removes Emission Unit -													
(FPS) (ACFM) (km) (km) (km) Property Line (ft) Image: Construction (ft) Emission Unit Image: Construction (ft)	Exit Velocity	Exit Flow	NYTM (E)	NYTM (N)	Building	Distance to	Date of Removal						
Emission UnitImage: sector of the sector of th	(FPS)	(ACFM)	(km)	(km)	-	Property Line (ft)							
Ground Elevation (ft)Height (ft)Height Above Structure (ft)Inside Diameter (in)Exit Temp. (°F)Cross SectionEvent Velocity (FPS)Exit Flow (ACFM)NYTM (E) (km)NYTM (N) (km)BuildingDistance to Property Line (ft)Date of RemovalEmission UnitGround Elevation (ft)Height (ft)Height Above (km)Inside Diameter (km)Exit Temp. (km)Distance to Property Line (ft)Date of RemovalGround Elevation (ft)Height (ft)Height Above Structure (ft)Inside Diameter (in)Exit Temp. (°F)Cross Section-Exit Velocity (FPS)Exit Flow (ft)NYTM (E) (km)NYTM (N) (km)BuildingDistance to Property Line (ft)-Exit Velocity (FPS)Exit Flow (ACFM)NYTM (E) (km)NYTM (N) (km)BuildingDistance to Property Line (ft)Date of Removal	Emission Unit					Emission Pc	bint						
Elevation (ft) (ft) Structure (ft) (in) (°F) Length (in) Width (in) Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building Distance to Property Line (ft) Date of Removal Emission Unit - Image: Cross Section Image: Cross Sec	Ground	Height	Height Above	Inside Diameter	Exit Temp.	Cross S	Section						
$ \begin{array}{c c c c c c c c c c } \hline Fit $\ F$	Elevation (ft)	(ft)	Structure (ft)	(in)	(°F)	Length (in)	Width (in)						
Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building Distance to Property Line (ft) Date of Removal Emission Unit -													
(FPS) (ACFM) (km) (km) Dunding Property Line (ft) Durde of Removal Emission Unit -	Exit Velocity	Exit Flow	NYTM (E)	NYTM (N)	Building	Distance to	Date of Removal						
Image: Sector	(FPS)	(ACFM)	(km)	(km)	Dunung	Property Line (ft)							
Emission UnitImage: Point of the point of th													
Ground Elevation (ft) Height (ft) Height Above Structure (ft) Inside Diameter (in) Exit Temp. (°F) Cross Section Length (in) Width (in) Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building (km) Distance to Property Line (ft) Date of Removal	Emission Unit	-				Emission Po	bint						
Elevation (ft) (ft) Structure (ft) (in) (°F) Length (in) Width (in) Exit Velocity Exit Flow NYTM (E) NYTM (N) Building Distance to Date of Removal (FPS) (ACFM) (km) (km) Exit Flow Distance (ft) Date of Removal	Ground	Height	Height Above	Inside Diameter	Exit Temp.	Cross S	Section						
Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building Distance to Property Line (ft) Date of Removal	Elevation (ft)	(ft)	Structure (ft)	(in)	(°F)	Length (in)	Width (in)						
Exit Velocity (FPS) Exit Flow (ACFM) NYTM (E) (km) NYTM (N) (km) Building Distance to Property Line (ft) Date of Removal													
	Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (km)	NYTM (N) (km)	Building	Distance to Property Line (ft)	Date of Removal						



Department of Environmental Conservation



	Emission Source/Control (continuation)												
Emissior	n Unit 🛛 U	- 0 0 0 0	1										
Emission	n Source	Date of	Date of	Date of		Control Type	N	lanufacturer's					
ID	Туре	Construction	Operation	Removal	Code	Description	Na	me/Model No.					
0S004	С	2008	2008				CAT	ERPILLAR C27					
Design		Design Ca	pacity Units	1		Waste Feed		Waste Type					
Capacity	Code		Description		Code	Description	Code	Description					
7.50	25	MILLIO	N BTU PER H	OUR									
Emission	n Source	Date of	Date of	Date of		Control Type	N	lanufacturer's					
ID	Туре	Construction	Operation	Removal	Code	Description	Na	ame/Model No.					
ER006	С	2017	2018				CATI	ERPILLAR 3512C					
Design	-	Design Ca	pacity Units			Waste Feed		Waste Type					
Capacity	Code		Description		Code	Description	Code	Description					
15.00	25	MILLIO	N BTU PER H	OUR									
Emission	n Source	Date of	Date of	Date of		Control Type	N	lanufacturer's					
ID	Туре	Construction	Operation	Removal	Code	Description	Na	me/Model No.					
BS007	С	2006	2006				CU	JMMINS 3100					
Design		Design Ca	pacity Units	L		Waste Feed		Waste Type					
Capacity	Code		Description		Code	Description	Code	Description					
9.00	25	MILLIO	N BTU PER H	OUR									
Emissio	n Source	Date of	Date of	Date of		Control Type	N	lanufacturer's					
ID	Туре	Construction	Operation	Removal	Code Description Name/Model								
BS006	С	2008	2008	2017			CATER	PILLAR 3512C					
Design		Design Ca	pacity Units			Waste Feed		Waste Type					
Capacity	Code		Description		Code	Description	Code	Description					
15.00	25	MILLION BTU	PER HOUR										
Emissio	n Source	Date of	Date of	Date of		Control Type	N	lanufacturer's					
ID	Туре	Construction	Operation	Removal	Code	Description	Na	me/Model No.					
Design		Design Ca	pacity Units			Waste Feed		Waste Type					
Capacity	Code		Description		Code	Description	Code	Description					
Emission	n Source	Date of	Date of	Date of		Control Type	N	1anufacturer's					
ID	Туре	Construction	Operation	Removal	Code	Description	Na	me/Model No.					
Design		Design Ca	pacity Units	L		Waste Feed		Waste Type					
Capacity	Code		Description		Code	Description	Code	Description					



Department of Environmental Conservation



	Emission Source/Control (continuation)												
Emissior	n Unit 🛛 U	- 0 0 0 0	2										
Emissior	n Source	Date of	Date of	Date of		Control Type	N	1anufacturer's					
ID	Туре	Construction	Operation	Removal	Code	Description	Na	me/Model No.					
0S007	С	2023	2024				Cater	pillar / G3516H					
Design		Design Ca	pacity Units	1		Waste Feed		Waste Type					
Capacity	Code		Description		Code	Description	Code	Description					
21.8	25	MILLIO	N BTU PER H	OUR									
Emissior	n Source	Date of	Date of	Date of		Control Type	N	lanufacturer's					
ID	Туре	Construction	Operation	Removal	Code	Description	Na	me/Model No.					
0\$008	С	2023	2024				Cater	pillar / G3516H					
Design		Design Ca	pacity Units			Waste Feed		Waste Type					
Capacity	Code		Description		Code	Description	Code	Description					
21.8	25	MILLIO	N BTU PER H	OUR									
Emissior	n Source	Date of	Date of	Date of		Control Type	N	lanufacturer's					
ID	Туре	Construction	Operation	Removal	Code	Description	Na	me/Model No.					
Design		Design Ca	pacity Units			Waste Feed		Waste Type					
Capacity	Code		Description		Code	Description	Code	Description					
Emissior	n Source	Date of	Date of	Date of		Control Type	N	lanufacturer's					
ID	Туре	Construction	Operation	Removal	Code Description Name/Model N								
Design		Design Ca	pacity Units			Waste Feed		Waste Type					
Capacity	Code		Description		Code	Description	Code	Description					
Emissior	n Source	Date of	Date of	Date of		Control Type	N	lanufacturer's					
ID	Туре	Construction	Operation	Removal	Code	Description	Na	me/Model No.					
Design		Design Ca	pacity Units	1		Waste Feed		Waste Type					
Capacity	Code		Description		Code	Description	Code	Description					
Emissior	n Source	Date of	Date of	Date of		Control Type	N	1anufacturer's					
ID	Type Construction Operation Remova				Code	Description	Na	me/Model No.					
Design		Design Ca	pacity Units		Waste Feed W			Waste Type					
Capacity	Code	0	Description		Code	Description	Code	Description					



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				Pro	cess Infor	matior	n			×C	ontinuatio	n She	et(s)
Emission Unit U	- 0 0 0	0 1								F	Process	G	ΕN
				Pro	ocess Deso	ription	า						
Generators loca Emission Source Emission Source Emission Source Emission Source	Generators located on the 13th floor firing diesel fuel oil. Emission Source/Control: 0S001 - Combustion, Design Capacity: 750 kilowatts Emission Source/Control: 0S002 - Combustion, Design Capacity: 750 kilowatts Emission Source/Control: 0S003 - Combustion, Design Capacity: 750 kilowatts Emission Source/Control: 0S004 - Combustion, Design Capacity: 750 kilowatts Emission Source/Control: 0S004 - Combustion, Design Capacity: 750 kilowatts Emission Source/Control: 0S004 - Combustion, Design Capacity: 750 kilowatts Emission Source/Control: 0S004 - Combustion, Design Capacity: 750 kilowatts												
Source Classification Code (SCC) Total Throughput Throughput Quantity Units													
Quantity/Hr Quantity/Yr Code De										criptio	n		
10300502 212.77 21277 0605 G								Ga	llons				
Confidential	al Operating Schedule Building									Floo	r/Location		
Operating at Max	1 100 1								13	th Floor			
	Emission Point Identifier(s)							-					
00001													
	1		Emis	sion So	ource/Con	trol Ide	enti	fier(s)					
0S001	0S002	2	0S00	3	0S004	1							
Emission Unit U	- 0 0 0	0 1								F	Process	G	ΕG
				Pro	ocess Desc	ription	ו						
Generators loca fuel oil. Emission Sourc Emission Sourc	ated on th ce/Contro ce/Contro	ie ER I: ER(I: BS(Roof ar 006 - Co 007 - Co	nd bas mbus mbusi	sement, i tion, Des tion, Des	respec sign C sign C	apa apa	ely, both fi acity: 1500 acity: 900 l	ring dies kilowatt kilowatts	el s			
Source Classification	Code (SCC)	0112	Total Th	roughpu	ut ntity/Vr	Code		Throug	hput Quan	tity Ur	nits n		
1030050	12	1	70 21	 1 ⁻	7021	060	5		Ga	llone			
Operating Schedule													
Confidential		_	Hour	s/Day	Days	/Year	1	Building		Floo	r/Location		
Operating at Max	imum Capac	ity	1		100			2		Ba	sement		
				Emissi	on Point l	dentifi	er(s)					
00002	00003	3						T					_]
	1		Emis	sion So	ource/Con	trol Ide	enti	fier(s)			-		
ER006	BS00	7											



DEC ID									
2 - 6 2 0 6	- 0 0 0 3 2								
		Pro	cess Emissi	ons Summ	ary		×C	ontinuation	Sheet(s)
Emission Unit	U - 0 0 0 0	1					F	Process	GEN
CAS Number	Contamin	ant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERF	P How Deter	mined
0NY075-00-5	PARTICU	LATES-10				4.65		03	
	Potential to Emit		Standard	Potenti	al to Emit	Ac	tual E	missions	
(lbs/hr)	(lbs/yr)	(standard units)	Units	How De	etermined	(lbs/hr)		(lbs/y	yr)
4.65	40734				03	4.65		465	5
Emission Unit	U - 0 0 0 0	1					F	Process	G E N
CAS Number	Contamin	ant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERF	P How Deter	mined
0NY750-02-5	PARTICUL	ATES-2.5				4.65		03	
	Potential to Emit		Standard	Potenti	al to Emit	Ac	tual E	missions	
(lbs/hr)	(lbs/yr)	(standard units)	Units	How De	etermined	(lbs/hr)		(lbs/y	yr)
4.65	40734				03	4.65		465	5
Emission Unit	U - 0 0 0 0	1					F	Process	G E N
CAS Number	Contamin	ant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERI	ERP How Determin	
007446-09-5	SULFUR	DIOXIDE				8.7	03		
	Potential to Emit		Standard	Potenti	Potential to Emit		tual E	missions	
(lbs/hr)	(lbs/yr)	(standard units)	Units	How De	etermined	(lbs/hr)		(lbs/y	yr)
8.7	76212				03	8.7		870)
		Emissio	n Source Er	nissions Su	ummary		C	ontinuation	Sheet(s)
Emission Source							F	Process	
CAS Number	Contamin	ant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERI	P How Deter	mined
	Potential to Emit		Standard	Potenti	ial to Emit	Ac	tual E	missions	
(lbs/hr)	(lbs/yr)	(standard units)	Units	How De	etermined	(lbs/hr)		(lbs/y	yr)
Emission Source							F	Process	
CAS Number	Contamin	ant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERI	P How Deter	mined
	Potential to Emit		Standard	Potenti	ial to Emit	Ac	tual E	missions	
(lbs/hr)	(lbs/yr)	(standard units)	Units	How De	etermined	(lbs/hr)		(lbs/y	yr)
Emission Source							F	Process	
CAS Number	Contamin	ant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERI	P How Deter	mined
	Potential to Emit		Standard	Potenti	al to Emit	Ac	tual E	missions	
(lbs/hr)	(lbs/yr)	(standard units)	Units	How De	etermined	(lbs/hr)		(lbs/y	/r)



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		Process Emi	ssion	s Summai	۲y ((continuatio	n)			
Emission Unit	U - 0 0 0	0 1							Proces	S G E N
CAS No.	Contar	minant Name		% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	ERP How
0NIX210-00-0				Intoughpe	1	Capture	control	11	32.3	03
0111210-00-0		IIIKOOEN							Δct	ual
(lbs/hr)	(lbs/yr)	(standard units)	Stan	dard Units		PTE How Dete	ermined		(lbs/hr)	(lbs/yr)
132.3	1158948				03	3		13	32.3	13230
Emission Unit	U - 0 0 0	0 1							Proces	S G E N
CAS No.	Contar	ninant Name		% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	ERP How Determined
000630-08-0	CARBON MO	NOXIDE	_					28	3.5	03
	PTE		Stan	dard Units		PTE How Dete	armined		Act	ual
(lbs/hr)	(lbs/yr)	(standard units)	Jtan			TTE HOW Dette	Innieu		(lbs/hr)	(lbs/yr)
28.5	249660				03	3		28	3.5	2850
Emission Unit	U - 0 0 0	0 1							Proces	S G E N
CAS No.	Contar	minant Name		% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	ERP How Determined
0NY988-00-0	TOTAL VOLATILE	ORGANIC COMPOL	JNDS					10	0.8	03
	PTE		Stan	andard Units PTE How Determined			ermined		Act	:ual
(lbs/hr)	(lbs/yr)	(standard units)							(lbs/hr)	(lbs/yr)
10.8	94608				03	3		1().8	1080
Emission Unit	U - 0 0 0	0 1							Proces	S GEN
CAS No.	Contar	minant Name		% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	ERP How Determined
0NY100-00-0	TOTAL HAZARDO	OUS AIR POLLUTA	ANTS					0.	1924	03
	PTE		Stan	dard Units		PTE How Dete	ermined		Act	:ual
(lbs/hr)	(lbs/yr)	(standard units)			00				(lbs/hr)	(lbs/yr)
0.1924	1685.73				03	3		0.	1924	19.24
Emission Unit		0 1			_			-	Proces	S GEG
CAS No.	Contar	minant Name		% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	ERP How Determined
0NY075-00-5	PARTICULATE	ES-10						3.	72	03
	PTE		Stan	dard Units		PTE How Dete	ermined		Act	ual (
(lbs/hr)	(lbs/yr)	(standard units)				<u> </u>			(lbs/hr)	(lbs/yr)
3.72	32587				03	5		3.	/2	372



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		Process Emi	ssion	is Summai	ry ((continuatio	n)			
Emission Unit	U - 0 0 0	0 1							Proces	S G E G
CAS No	Contar	ninant Name		%		%	%	F	RP (lbs/br)	ERP How
	Contai			Throughpu	ıt	Capture	Control			Determined
0NY210-00-0	OXIDES OF N	ITROGEN						1(05.84	03
	PTE		Stan	dard Units		PTE How Dete	ermined		Act	ual
(lbs/hr)	(lbs/yr)	(standard units)			00				(lbs/hr)	(lbs/yr)
105.84	927158				03	3		1	J5.84	10584
Emission Unit	U - 0 0 0	0 1							Proces	s GEG
CAS No.	Contar	minant Name		%		%	%	E	RP (lbs/hr)	ERP How
				Inrougnpt	Jτ	Capture	Control			Determined
000630-08-0		NOXIDE						22	2.8	03
(lbs/br)	PIE (lbs/yr)	(standard units)	Stan	dard Units		PTE How Dete	ermined	⊢	Act (lbs/br)	ual (lbs/yr)
22.8	199728	(standard dints)		_	03	3		2:	2 8	2280
Emission Unit		0 1			00	, 		1	Proces	S G F G
		•		%		%	%	Г		FRP How
CAS No.	Contar	minant Name		Throughpu	ıt	Capture	Control	E	RP (lbs/hr)	Determined
0NY988-00-0	TOTAL VOLATILE	ORGANIC COMPOL	JNDS				8.	64	03	
	PTE		Stan	ndard Units PTE How Determined			ermined		Act	:ual
(lbs/hr)	(lbs/yr)	(standard units)							(lbs/hr)	(lbs/yr)
8.64	75686				03	3		8.	64	864
Emission Unit	U - 0 0 0	0 1							Proces	s GEG
CAS No.	Contar	minant Name		%		%	%	E	RP (lbs/hr)	ERP How
				Inrougnpt	Jτ	Capture	Control		4 = 0.0	Determined
0NY100-00-0	TOTAL HAZARDO	OUS AIR POLLUTA	ANTS					0.	1539	03
(lbs/br)	PTE (lbs/yr)	(standard units)	Stan	dard Units		PTE How Dete	ermined	⊢	Act (lbs/br)	ual (lbs/yr)
0.1539	1348.58	(00000000000000000000000000000000000000			03	3		0.	1539	15.39
Emission Unit	U _ 0 0 0	0 1							Proces	S G E G
				%		%	%			ERP How
CAS NO.	Contaminant Name			Throughpu	ıt	Capture	Control		RP (lbs/hr)	Determined
0NY075-00-5	PARTICULATE	ES-2.5						3.	72	03
	PTE		Stan	dard Units		PTF How Dete	rmined		Act	:ual
(lbs/hr)	(lbs/yr)	(standard units)	Juli				(lbs/hr)		(lbs/yr)	
3.72	32587				03	3		3.	72	372



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		Process Emis	ssion	s Summar	·у (continuatio	n)			
Emission Unit	U - 0 0 0	0 1							Proces	S G E G
CAS No.	Contar	ninant Name		% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	ERP How Determined
007446-09-5	SULFUR DIOX	(IDE						6.	96	03
	PTE		Stan	dard Units		PTE How Dete	ermined		Act	ual
(lbs/hr)	(lbs/yr)	(standard units)			00				(lbs/hr)	(lbs/yr)
6.96	60970				03	5		6.	96	696
Emission Unit	U - 0 0 0	0 2			_				Proces	S CHP
CAS No.	Contar	minant Name		% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	ERP How Determined
000630-08-0	CARBON MON	NOXIDE						20	0.4264	03
	PTE		Stan	dard Units		PTE How Dete	ermined		Act	ual
(lbs/hr)	(lbs/yr)	(standard units)			03)		7	(lbs/hr)	(lbs/yr)
7.29 Enciencie na Ulucit	03905				03)		1.	29	00001
Emission Unit		0 2		0/	_	0/	0/	<u> </u>	Proces	S CHP
CAS No.	Contar	minant Name		% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	Determined
0NY988-00-0	TOTAL VOLATILE	ORGANIC COMPOL	JNDS					5.	107	03
	PTE		Stan	Standard Units PTE How Determined			ermined		Act	ual
(lbs/hr)	(lbs/yr)	(standard units)			00	<u>,</u>		6	(lbs/hr)	(lbs/yr)
5.107	44733.89				03	5		5.	107	40852.86
Emission Unit		0 2		a (_	0/			Proces	S CHP
CAS No.	Contar	minant Name		% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	ERP How Determined
0NY100-00-0	TOTAL HAZARDO	OUS AIR POLLUTA	NTS					1.	1131	03
	PTE		Stan	dard Units		PTE How Dete	ermined		Act	ual
(lbs/hr)	(IDS/yr)	(standard units)			03)		1	(IDS/Nr)	(IDS/yr)
1.1131	9750.46				03			<u> </u>	Dracas	0904.55
		0 2		0/	_	0/	0/	_	Proces	
CAS No.	Contaminant Name			% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	Determined
0NY075-00-5	PARTICULATE	ES-2.5						0.	567	03
	PTE		Stan	tandard Units P		PTE How Determined		Actual		
(lbs/hr)	(lbs/yr)	(standard units)			0.2)	termined		(lbs/hr)	(lbs/yr)
0.507	4904				03)		U.	007	4000



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CAS No.	Contar	ninant Name		% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	ERP How Determined
0NY075-00-5	PARTICULATE	ES-10						0.	567	03
	PTE		Stan	dard Units		PTE How Dete	ermined	L	Act	tual
(lbs/hr)	(lbs/yr)	(standard units)			0.0	<u> </u>			(lbs/hr)	(lbs/yr)
0.567	4964				03	3		0.	567	4533
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CAS No.	Contar	ninant Name		% Throughpu	Jt	% Capture	% Control	E	RP (lbs/hr)	ERP How Determined
007446-09-5	SULFUR DIOX	KIDE						0.	0231	03
	PTE		Stan	dard Units		PTE How Dete	ermined		Act	tual
(lbs/hr)	(lbs/yr) (standard units)								(lbs/hr)	(lbs/yr)
0.0231	201.9				03	3		0.	0231	184.4
Emission Unit	U - 0 0 0	0 2							Proces	S CHP
CAS No.	Contar	ninant Name		% % Throughput Capture		% Control	E	RP (lbs/hr)	ERP How Determined	
0NY210-00-0	OXIDES OF N	ITROGEN						1.	216	03
	PTE		Stan	dard Units		PTE How Dete	ermined		Act	tual
(lbs/hr)	(lbs/yr)	(standard units)							(lbs/hr)	(lbs/yr)
1.216	10650				03	3		1.	216	9726.9
Emission Unit									Proces	s
CAS No.	Contar	ninant Name		% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	ERP How Determined
	PTE		Stan	dard Units		PTE How Dete	ermined	L	Act	tual
(lbs/hr)	(lbs/yr)	(standard units)							(lbs/hr)	(lbs/yr)
Emission Unit			<u> </u>					<u> </u>	Proces	s
CAS No. Contaminant Name				% Throughpu	ıt	% Capture	% Control	E	RP (lbs/hr)	ERP How Determined
	PTE		Standard Units		PTE How Determined			Act	tual	
(lbs/hr)	(lbs/yr)	(standard units)							(lbs/hr)	(lbs/yr)



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New York State Department of Environmental Conservation

Air Permit Application



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		Request for Emission Reduction Cr	edits	Continuation Sheet(s)					
Emission Source	e								
		Emission Reduction Description	n						
		Contaminant Emission Reduction I	Data						
			Reduc	tion					
Baseline	Period/	_/to//	Date	Method					
CAS Number		Contaminant Name	ERC (lb	os/yr)					
			Netting	Offset					
	·	Facility to Use Future Reduction	n						
			Application						
Name									
Location Address									
City/ Town	City/ Town / Village State Zip								
Emission Source		Use of Emission Reduction Cred	its	Continuation Sheet(s)					
		Proposed Project Description							
	-	Contaminant Emissions Increase D	Data						
CAS Number		Contaminant Name	Project Emissio	n Potential (lbs/yr)					
All facilities un	der the ownership	of this "owner/firm" are operating in compliance	nce with all applicable requ	uirements and state					
regulations includ	ling any compliant	ce certification requirements under Section 114	(a)(3) of the Clean Air Act	Amendments of 1990,					
or are meeting th	e schedule of a co	nsent order.	The stillers						
		Source of Emission Reduction Credit -	Permit I)					
Name		Π-							
Location Address									
City/ Town ,	/ Village	State	2	Zip					
Emission Source	CAS Number	Contaminant Name	ERC (Ib	os/yr) Offset					
			Netting	Unset					
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Department of Environmental Conservation

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Supporting Documentation and Attachments	
Required Supporting Documentation	Date of Document
× List of Exempt Activities (attach form)	01/11/2022
Plot Plan	
Process Flow Diagram	
× Methods Used to Determine Compliance (attach form)	01/11/2022
× Emissions Calculations	01/11/2022
Optional Supporting Documentation	Date of Document
Air Quality Model	
Confidentiality Justification	
Ambient Air Quality Monitoring Plan or Reports	
Stack Test Protocol	
Stack Test Report	
Continuous Emissions Monitoring Plan	
Lowest Achievable Emission Rate (LAER) Demonstration	
Best Available Control Technology (BACT) Demonstration	
Reasonably Available Control Technology (RACT) Demonstration	
Toxic Impact Assessment (TIA)	
Environmental Rating Demonstration	
Operational Flexibility Protocol/Description of Alternate Operating Scenarios	
Title IV Permit Application	
Emission Reduction Credit (ERC) Quantification (attach form)	
Baseline Period Demonstration	
Use of Emission Reduction Credits (attach form)	
Analysis of Contemporaneous Emissions Increase/Decrease	
Other Supporting Documentation	Date of Document

List of Exempt Activities





List of Exempt Activities

Instructions

Applicants for Title V facility permits must provide a listing of each exempt activity, as described in 6 NYCRR Part 201-3.2(c), that is currently operated at the facility. This form must be provided with each application for a new Title V facility permit and Title V facility permit renewal, or whenever changes are necessary. In order to complete this form, enter the number and building location of each exempt activity conducted. Building IDs used on this form should match those used in the Title V permit application. Provide all additional information where requested. If a listed activity is not operated at the facility, leave the corresponding information blank.

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
	Combustion		
(1)	Stationary or portable combustion installations where the furnace has a maximum rated heat input capacity less than 10 MMBtu/hr burning liquid or gaseous fuels; or a maximum heat input capacity of less than 1 MMBtu/hr burning solid fuels. This activity does not include combustion installations burning any material classified as solid waste, as defined in 6 NYCRR Part 360, hazardous waste, as defined in 6 NYCRR Part 371, or waste oil, as defined in 6 NYCRR Subpart 225-2. For each activity listed, attach documentation indicating the date of construction, heat input (MMBtu/hr), and the type of fuel combusted.		
(2)	Space heaters burning waste oil at eligible facilities, as defined in 6 NYCRR Subpart 225-2, generated on-site or at a facility under common control, alone or in conjunction with used oil generated by a do-it-yourself oil changer as described in 6 NYCRR Subpart 374-2.		
(3)(i)	Stationary or portable internal combustion engines that are liquid or gaseous fuel powered and located within the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury, and have a maximum mechanical power rating of less than 200 brake horsepower. <u>For each activity listed, attach documentation indicating the date of construction, engine model year, engine rating (hp),</u> <u>displacement (L/cylinder), type of fuel combusted, and EPA issued certificate of conformity.</u>		

New York	State Department of Environmental Conservation	ORK Depar	tment of
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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(3)(ii)	Stationary or portable internal combustion engines that are liquid or gaseous fuel powered and located outside of the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury, and have a maximum mechanical power rating of less than 400 brake horsepower.		
	For each activity listed, attach documentation indicating the date of construction, engine model year, engine rating (hp), displacement (L/cylinder), type of fuel combusted, and EPA issued certificate of conformity.		
(3)(iii)	Stationary or portable internal combustion engines that are gasoline powered and have a maximum mechanical power rating of less than 50 brake horsepower.		
(4)	Reserved.		
(5)	Gas turbines with a heat input at peak load less then 10 MMBtu/hour		
(6)	Emergency power generating stationary internal combustion engines, as defined in 6 NYCRR Part 200.1(cq). Stationary internal combustion engines used for peak shaving and/or demand response programs are not exempt.	3	Main Building
	For each activity listed, attach documentation indicating the date of construction, engine model year, engine rating (hp),		
	displacement (L/cylinder), type of fuel combusted, and EPA issued certificate of conformity.		
	Combustion Related		1
(7)	Non-contact water cooling towers and water treatment systems for process cooling water and other water containers designed to cool, store or otherwise handle water that has not been in direct contact with gaseous or liquid process streams.		
	Agricultural		
(8)	Feed and grain milling, cleaning, conveying, drying and storage operations including grain storage silos, where such silos exhaust to an appropriate emissions control device, excluding grain terminal elevators with permanent storage capacities over 2.5 million U.S. bushels, and grain storage elevators with capacities above one million bushels.		

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(9)	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.		
	Commercial - Food Service Industries		
(10)	Flour silos at bakeries, provided all such silos are exhausted through an appropriate emission control device.		
(11)	Emissions from flavorings added to a food product where such flavors are manually added to the product.		
	Commercial - Graphic Arts	-	
(12)	Screen printing inks/coatings or adhesives which are applied by a hand-held squeegee. A hand-held squeegee is one that is not propelled though the use of mechanical conveyance and is not an integral part of the screen printing process.		
(13)	Graphic arts processes at facilities located outside the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury whose facility-wide total emissions of volatile organic compounds from inks, coatings, adhesives, fountain solutions and cleaning solutions are less than three tons during any 12-month period.		
(14)	Graphic label and/or box labeling operations where the inks are applied by stamping or rolling.		
(15)	Graphic arts processes which are specifically exempted from regulation under 6 NYCRR Part 234, with respect to emissions of volatile organic compounds which are not given an A rating as described in 6 NYCRR Part 212.		
	Commercial - Other		
(16)	Gasoline dispensing sites registered with the department pursuant to 6 NYCRR Part 613.		

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(17)	Surface coating and related activities at facilities which use less than 25 gallons per month of total coating materials, or with actual volatile organic compound emissions of 1,000 pounds or less from coating materials in any 12-month period. Coating materials include all paints and paint components, other materials mixed with paints prior to application, and cleaning solvents, combined. This exemption is subject to the following: (i) The facility is located outside of the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury; and (ii) All abrasive cleaning and surface coating operations are performed in an enclosed building where such operations are exhausted into appropriate emission control devices.		
(18)	Abrasive cleaning operations which exhaust to an appropriate emission control device.		
(19)	Ultraviolet curing operations.		
	Municipal/Public Health Related		·
(20)	Landfill gas ventilating systems at landfills with design capacities less than 2.5 million megagrams (3.3 million tons) and 2.5 million cubic meters (2.75 million cubic yards), where the systems are vented directly to the atmosphere, and the ventilating system has been required by, and is operating under, the conditions of a valid 6 NYCRR Part 360 permit, or order on consent	5 t.	
	Storage Vessels		
(21)	Distillate fuel oil, residual fuel oil, and biodiesel storage tanks with storage capacities below 300,000 barrels.		
(22)	Pressurized fixed roof tanks which are capable of maintaining a working pressure at all times to prevent emissions of volatile organic compounds to the outdoor atmosphere.	2	
(23)	External floating roof tanks which are of welded construction and are equipped with a metallic-type shoe primary seal and a secondary seal from the top of the shoe seal to the tank wall.		

New York Air Permit	State Department of Environmental Conservation	VORK UNITY Depar Enviro Conse	tment of nmental rvation
		Date of Fo	orm
Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(24)	 External floating roof tanks which are used for the storage of a petroleum or volatile organic liquid with a true vapor pressur less than 4.0 psi (27.6 kPa), are of welded construction and are equipped with one of the following: (i) a metallic-type shoe seal; (ii) a liquid-mounted foam seal; (iii) a liquid-mounted liquid-filled type seal; or (iv) equivalent control equipment or device. 	2	
(25)	Storage tanks, including petroleum liquid storage tanks as defined in 6 NYCRR Part 229, and liquid asphalt storage tanks with capacities less than 10,000 gallons, except those subject to 6 NYCRR Part 229 or Part 233.		
(26)	Horizontal petroleum or volatile organic liquid storage tanks.		
(27)	Storage of solid materials, provided all such storage is exhausted through an appropriate emission control device. This exemption does not include raw material, clinker, or finished product storage at Portland cement plants.		
	Industrial	·	
(28)	Processing equipment at existing sand and gravel and stone crushing plants which were installed or constructed before August 31, 1983, where water is used for operations such as wet conveying, separating, and washing. This exemption does not include processing equipment at existing sand and gravel and stone crushing plants where water is used for dust suppression.		
(29)(i)	Sand and gravel, crushed stone, concrete, or recycled asphalt processing lines at non-metallic mineral processing facilities that are a permanent or fixed installation with a maximum rated processing capacity of 25 tons of minerals per hour or less.		
(29)(ii)	Sand and gravel, crushed stone, concrete, or recycled asphalt processing lines at non-metallic mineral processing facilities that are a portable emission source with a maximum rated processing capacity of 150 tons of minerals per hour or less.		

New York	State Department of Environmental Conservation		epartment of	
Air Permit	t Application		onservation	
		Date	of Form	
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Rule Citation 201-3.2(c)	Description	Num o Activ	iber f ities	ng on
(29)(iii)	Sand and gravel, crushed stone, concrete, or recycled asphalt processing lines at non-metallic mineral processing facilities that are used exclusively to screen minerals at a facility where no crushing or grinding takes place.			
(30)	Reserved.			
(31)	Surface coating operations which are specifically exempted from regulation under 6 NYCRR Subparts 228-1 and 228-2, with respect to emissions of volatile organic compounds which are not given an A rating pursuant to 6 NYCRR Part 212.	h		
(32)	Pharmaceutical tablet branding operations.			
(33)	Thermal packaging operations, including, but not limited to, therimage labeling, blister packing, shrink wrapping, shrink banding, and carton gluing.			
(34)	Powder coating operations.			
(35)	All tumblers used for the cleaning and/or deburring of metal products without abrasive blasting.			
(36)	Presses used exclusively for molding or extruding plastics except where halogenated polymers are used or where halogena carbon compounds or hydrocarbon solvents are used as foaming agents.	ated		
(37)	Concrete batch plants where the cement weigh hopper and all bulk storage silos are exhausted through fabric filters, and t batch drop point is controlled by a shroud or other emission control device.	the		
(38)	Cement storage operations not located at Portland cement plants where materials are transported by screw or bucket conveyors.			
(39)(i)	Cold cleaning degreasers with an open surface area of 11 square feet or less and an internal volume of 93 gallons or less or having an organic solvent loss of 3 gallons per day or less.	r,		
39(ii)	Conveyorized degreasers with an air/vapor interface smaller than 22 square feet (2 square meters), unless subject to the requirements of 40 CFR 63 Subpart T.			
(39)(iii)	Open-top vapor degreasers with an open-top area smaller than 11 square feet (1.0 square meter), unless subject to the requirements in 40 CFR 63, Subpart T.			
	Miscellaneous			
(40)	Ventilating and exhaust systems for laboratory operations. This exemption does not include laboratory operations used to produce products for sale except in a de minimis manner.	,		
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Air Permit	Application	VYORK EOF ENVITY Conse	tment of nmental rvation
		Date of Fo	orm
Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(41)	Exhaust or ventilating systems for the melting of gold, silver, platinum and other precious metals.		
(42)	Exhaust systems for paint mixing, transfer, filling or sampling and/or paint storage rooms or cabinets, provided the paints stored within these locations are stored in closed containers when not in use.		
(43)	Exhaust systems for solvent transfer, filling or sampling, and/or solvent storage rooms provided the solvents are stored in closed containers when not in use.		
(44)	Reserved		
(45)	The application of odor counteractants and/or neutralizers.		
(46)	Hydrogen, natural gas, and methane fuel cells.		
(47)	Dry cleaning equipment that uses only water-based cleaning processes or those using liquid carbon dioxide.		
(48)	Manure spreading, handling and storage at farms and agricultural facilities.		
(49)	Covered manure storage at farms that exhausts to a flare or other appropriate emission control device. This activity does n include anaerobic digestion processes operating with or without stationary or portable combustion installations.	ot	
(50)	Coffee roasting processes which have a maximum operating capacity of 3 kilograms or less of green coffee beans per batch and no greater than 25 tons of green coffee beans per year, that are vented through an unobstructed, vertical stack that ensures proper dispersion of air contaminants.		
(51)	Process emission sources at breweries with total combined beer and/or malt liquor production of 60,000 barrels per year o less.	r	
(52)	Process emission sources at wineries with total combined wine and/or brandy production of 700,000 gallons per year or les	S.	
(53)	Process emission sources at distilleries with 10,000 distiller's bushels of grain input per year or less.		
(54)	Process emission sources at wood and lumber drying kilns with an annual throughput of untreated wood of 275,000 board feet or less.		

NEW YORK STATE OF OPPORTUNITY

Methods Used to Determine Compliance



DEC 2 - 6 2 0 6	- 0 0 0 3 2		
		Methods Used to Determine Compliance	
Emission Unit ID	Applicable Requirement	Method Used to Determine Compliance	Compliance Date
Facility	6 NYCRR 201.5.a.1 6 NYCRR 201.4	The facility will submit compliance reports to DEC	
Facility	6 NYCRR 202-2.1	The facility's total 12 month rolling NOx will be capped under 24.9 tpy to maintain state facility permit status	
U-00002	6 NYCRR 227-1.3(a)	Opacity of stack emissions are below 20%	

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Sheet _____ of _____

Emissions Calculations

EXHIBIT 1

NYC-HH - New Bellevue Hospital 462 First Avenue, New York, NY 10016

Section 1: MAXIMUM ANNUAL (ACTUAL & POTENTIAL) FUEL CONSUMPTION FOR the 2 Cogen Engines

Number	Equipment	Year Manufactured	Location	Serial #	Rating (kW)	Maximum Heat Input	Fi Ty	Fuel Type		Actual Annual Usage	Maximum Annual (Potential to Emit) Capacity
						(million BTU/hr)	Primary	Secondary	(CFH)	(CFY)	(CFY)
1	Caterpillar / G3516H Caterpillar /				1982	21.80	Natural Gas	None	21374.51	170,996,078	187,240,706
2	G3516H				1982	21.80	Natural Gas	None	21374.51	170,996,078	187,240,706
2 Cogen E	ingines		TOTAL		3964.00	43.60			42749.0	341,992,157	374,481,412

1. Rating in KW, MMBTU/Hr provided by the facility, otherwise the equivalent KW was calculated (1 KW = 1.25 KVA, 1 KW = 1.34 HP)

Heating Valuve of Natural Gas

1020 Btu/SCF

2) Maximum Hourly Capacity in cubic foot per hour = (The Maximum Heat Input) / 1020 Btu/scf /100000

3. Maximum Annual (Potential to Emit) Capacity = Maximum Hourly Capacity x Maximum Operating Hours per Year

EXHIBIT 2

NYC-HH - New Bellevue Hospital

462 First Avenue, New York, NY 10016

Section 1: MAXIMUM ANNUAL (ACTUAL & POTENTIAL) FUEL CONSUMPTION FOR the 6 Demand Response GENERATORS

						Maximum Heat	Fi	uel	Maximum Hourly	Actual Annual	Maximum Annual
Number	Equipment	Year	Location	Serial #	Rating	Input	Т	/pe	Capacity	Usage	(Potential to Emit)
		Manufactured									Capacity
					(kW)						
						(million BTU/hr)	Primary	Secondary	(GPH)	(GPY)	(GPY)
1	Cat C27	2008	13th Floor/Main Building	AFN03262	750	7.50	Diesel	None	53.19	5,319	465,957
2	Cat C27	2008	13th Floor/Main Building	AFN03263	750	7.50	Diesel	None	53.19	5,319	465,957
3	Cat C27	2008	13th Floor/Main Building	AFN03264	750	7.50	Diesel	None	53.19	5,319	465,957
4	Cat C27	2008	13th Floor/Main Building	AFN03265	750	7.50	Diesel	None	53.19	5,319	465,957
5	Caterpillar 3512C	2017	ER Roof	G4W00628	1500	15.00	Diesel	None	106.38	10,638	931,915
6	Cummins 3100	2006	Basmenet		900	9.00	Diesel	None	63.83	6,383	559,149
6 PLM/CD	RP GENERATORS		TOTAL			54.00			383.0	38,298	3,354,894

Total NOx tpy: 8.425531915

1. Rating in KVA provided by the facility, the equivalent KW was calculated (1 KW = 1.25 KVA, 1 KW = 1.34 HP)

2. The Maximum Heat Input for Diesel = (Maximum Hourly Capacity in gallons per hour) x 141,000 Btu/galllon

3. Maximum Annual (Potential to Emit) Capacity = Maximum Hourly Capacity x Maximum Operating Hours per Year

Other Emergency Generators

						Maximum Heat	F	uel	Maximum Hourly	Actual Annual	Maximum Annual
Number	Equipment	Year	Location	Serial #	Rating	Input	Ту	/pe	Capacity	Usage	(Potential to Emit)
		Manufactured	Ī								Capacity
					(kW)						
						(million BTU/hr)	Primary	Secondary	(GPH)	(GPY)	(GPY)
	Rudox										
	RM900S/Engine:										
1	Mitsubishi S12N	1993	13th Floor/Main Building	11026	600	6.00	Diesel	None	42.55	2,213	372,766
2	Cat D399	1996	Ground	35B262	600	6.00	Diesel	None	42.55	2,213	372,766
3	Cat D399	1996	Ground	35B263	600	6.00	Diesel	None	42.55	2,213	372,766
3 Emerger	ncy GENERATORS		TOTAL			18.00			127.7	6,638	1,118,298

EXHIBIT 3 NYC-HH - New Bellevue Hospital

462 First Avenue, New York, NY 10016

ESTIMATION OF EMISSIONS OF REGULATED AIR CONTAMINANTS FROM THE TWO NEW CHP UNITS

	Emission Factor	Hourly Emission Rate	Actual Emissions	Potential Emissions	Ann	ual
Hazardous Air Pollutants		Natural Gas	Natural Gas	Natural Gas	Emission Rate	
	Natural Gas	42,749.0	341,992,156.9	374,481,411.8	from CH	IP Unit
		39	313,607	343,399	(TONS PE	R YEAR)
	lb/(million BTU)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Benzene	1.58E-03	0.0619	495.4988	542.5711	0.2477	0.2713
Toulene	5.58E-04	0.0219	174.9926	191.6169	0.0875	0.0958
Xylene	1.95E-04	0.0076	61.1533	66.9629	0.0306	0.0335
Formaldehyde	2.05E-02	0.8036	6428.9396	7039.6888	3.2145	3.5198
Acetaldehyde	2.79E-03	0.1094	874.9630	958.0845	0.4375	0.4790
Acrolein	2.63E-03	0.1031	824.7859	903.1406	0.4124	0.4516
Total Poly Aromatic Hydrocarbons	1.41E-04	0.0055	44.2186	48.4193	0.0221	0.0242
Total Hazardous Air Pollutants from Tw	vo (2) CHP Units	1.1131	8904.5517	9750.4841	4.4523	4.8752

	Emission Factor	Hourly Emission Rate	Actual Emissions	Potential Emissions	Ann	ual
Criteria Pollutants		Natural Gas	Natural Gas	Natural Gas	Emissio	on Rate
	Natural Gas	42,749.0	341,992,157	374,481,412	from CHP Unit	
		39	313,607	343,399	(TONS PE	R YEAR)
	lb/(million BTU.)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Particulates	0.0289	1.1333	9066.37	9927.68	4.5332	4.9638
Sulfur Dioxide	0.0006	0.0231	184.40	201.92	0.0922	0.1010
Oxides of Nitrogen ⁷	0.10 g/bhp-hr	1.2159	9726.87	10650.93	4.8634	5.3255
Carbon Monoxide ⁷	0.60 g/bhp-hr	7.2952	58361.23	63905.55	29.1806	31.9528
Volatile Organic Compounds (VOCs) ⁷	0.42 g/bhp-hr	5.1066	40852.86	44733.89	20.4264	22.3669
Total Criteria Pollutants from Two (2) C	HP Units				59.0959	64.7100

Pollutants GHG Emissions	Natural Gas	Natural Gas 42,749 39	Natural Gas 341,992,157 313,607	Natural Gas 374,481,412 343,399	Ann Emissio from Cl (TONS PE	ual on Rate IP Unit ER YEAR)
	lb/(million BTU.)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	116.98	4585.60	36,684,826.59	40,169,885.11	1.83E+04	2.01E+04
Methane (CH ₄)	0.0022	0.08642	691.38	757.07	3.46E-01	3.79E-01
Nitrous Oxide (N ₂ O)	0.00022	0.008642	69.14	75.71	3.46E-02	3.79E-02
Carbon Dioxide Equivalents (CO ₂ e)					18361.36	20105.69

1 U.S. EPA Air Pollution Engineering Manual (AP-42), Chapter 3.2, table 3.2-3.

2. Emission Factors are for uncontrolled natural gas fired 4-stroke rich-burn reciprocating engines

3. Annual Emission Rate for NOx and CO (lb/yr) = (Emission Factor (g/bhp-hr) x bhp(max) x (1 lb/454 g)) x 8760 hours. - Based

on Emissions guarantee from the Manufacturer with 90% SCR Nox reduction

4. Annual Emission Rate for other criteria pollutants = Emission Factor (Ib/million BTU) x Fuel Consumption (BTU/yr).

5. Total Emission Rate (ton/yr) = Annual Emission Rate (lb/yr) / 2000 (lb/ton).

6. Global Warming Potentials (GWPs) for CO2, CH4 and N2O are 1, 25, and 298 respectively (40 CFR 98 Subpart A).

7. Emission factors for Nox, CO, and VOCs provided by manufacturer's specifications


- Specification Sheet - SCR/Oxidation Catalyst System - For NOx/CO/VOC Reduction

Customer: H.O. Penn Machinery Comp	Notes:	Rev. 2		
		Ref. NO:	C00429-1	
Job Ref: Bellevue Hospital CHP		Date:	09/30/21	
Engine Mfg: Caterpillar		Model No:	G3516H (EM1338-0	2)
eKW: 1.982	BTU/EKW-Hr:		RPM:	1500
Fuel Type : Pipeline Natural Gas	Load.	100%	Hours/Year	8 040
	Loud.	10070	riouro, reur.	0,040
SCR Model <u>DeNOx-G3516H/2785</u>	Nbr Units:	2	SCR Controls:	In-Situ
Item Description	English	Units	Metric	Units
Engine Output	2,785	bHP	2,078	KWm
Exhaust Gas Mass Flow	22,792	lbs/hour	10,172	kg/hour
Exhaust Gas Temperature	758.0	°F	403.3	°C
Exhaust Flow - Standard Units	295,745	SCFH	8,374	SCMH
Pre-Catalyst NOx Emissions	1.18	g/bHP-hr	1.58	g/KWm-hr
Pre-Catalyst NOx Emissions	3.7	lbs/MWe/hr	1.7	kg/MWe/hr
Pre-Catalyst NOx Emissions	89	ppm@15% O2	89	ppm@15% O2
Post-Catalyst NOx Emissions	0.10	g/bHP-hr	0.13	g/KWm-hr
Post-Catalyst NOx Emissions	0.31	lbs/MWe/hr	0.14	kg/MWe/hr
Post-Catalyst NOx Emissions	8	ppm@15% O2	8	ppm@15% O2
Percentage NOx Reduction	91.5	%	91.5	%
Pre-Catalyst CO Emissions	1.66	g/bHP-hr	2.23	g/KWm-hr
Pre-Catalyst CO Emissions	5.1	lbs/MWe/hr	2.3	kg/MWe/hr
Pre-Catalyst CO Emissions	199	ppm@15% O2	199	ppm@15% O2
Post-Catalyst CO Emissions	0.60	g/bHP-hr	0.80	g/KWm-hr
Post-Catalyst CO Emissions	1.86	lbs/MWe/hr	0.84	kg/MWe/hr
Post-Catalyst CO Emissions	72	ppm@15% O2	72	ppm@15% O2
Percentage CO Reduction	63.9	%	63.9	%
Pre-Catalyst NMNEHC Emissions	0.42	a/bHP-hr	0.56	a/KWm-hr
Pre-Catalyst NMNEHC Emissions	1.3	lbs/MWe/hr	0.6	ka/MWe/hr
Pre-Catalyst NMNEHC Emissions	32	ppm@15% O2	32	ppm@15% O2
Post-Catalyst NMNEHC Emissions	0.10	g/bHP-hr	0.13	g/KWm-hr
Post-Catalyst NMNEHC Emissions	0.31	lbs/MWe/hr	0.14	kg/MWe/hr
Post-Catalyst NMNEHC Emissions	8	ppm@15% O2	8	ppm@15% O2
Percentage NMNEHC Reduction	76.2	%	76.2	%
Exhaust Gas Nozzle Size, Nominal	24	Inches, ASA	n/a	
Exhaust Gas Nozzle Velocity	3884.2	FPM	19.7	m/sec
Pressure Drop Across Catalyst/Mixer	8.0	In. WC	20.0	mbar
Urea Consumption Rate (40% Conc.)	1.60	Gal/Hr	6.1	Liter/Hr
Urea Tank Size (60 Day Refill Interval)	4835.7	Gallons	18305.0	Liters
Maximum Ammonia Slip	10	PPM@15% O ₂	10	PPM@15% O ₂
SCR Catalyst Volume	32.00	Cu.Ft	0.906	Cu.Meter
SCR Catalyst Configuration	8x8x2x12	(H, H, S)	8x8x2x300	(H, H, S)
SCR Catalyst Space Velocity	9,242	SCFH/FT ³	9,242	SCMH/M ³
Oxidation Catalyst Volume	5.33	Cu.Ft	0.151	Cu.Meter
Oxidation Catalyst Configuration	8x8x1x4		8x8x1x100	
Oxidation Catalyst Space Velocity	55,452	SCFH/FT ³	55,452	SCMH/m ³

* NMNEHC PPM Values Shown calculated as with Mol. Weight of 15.84

EXHIBIT 4

NYC-HH - New Bellevue Hospital 462 First Avenue, New York, NY 10016

ESTIMATION OF EMISSIONS OF REGULATED AIR CONTAMINANTS FROM 6 PLM Generators

	Emission Factor	Hourly Emission Rate	Actual Emissions	Potential Emissions	Ann	ual
Hazardous Air Pollutants		No.2 Diesel Oil	No.2 Diesel Oil	No.2 Diesel Oil	Emissio	on Rate
	Diesel Oil	54.000	38,298	3,354,894	From Large PL	M Generators
			5,400	473,040	(TONS PE	R YEAR)
	lb/(million BTU)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Benzene	0.0009	0.0504	5.0382	441.3463	0.002519	0.2207
Toluene	0.0004	0.0221	2.2086	193.4734	0.0011	0.0967
Xylene	0.0003	0.0154	1.5390	134.8164	0.0008	0.0674
Propylene	0.0026	0.1393	13.9320	1220.4432	0.0070	0.6102
Formaldehyde	0.0012	0.0637	6.3720	558.1872	0.0032	0.2791
Acetaldehyde	0.0008	0.0414	4.1418	362.8217	0.0021	0.1814
Acrolein	0.0001	0.0050	0.4995	43.7562	0.0002	0.0219
Total PolyAromatic Hydrocarbons	0.0002	0.0091	0.9072	79.4707	0.0005	0.0397
		0.3464				
Total Hazardous Air Pollutants	s from 6 PLM Gen	erators			0.0173	1.5172

	Emission Factor	Hourly Emission Rate	Actual Emissions	Potential Emissions	Ann	ual
Criteria Pollutants		No.2 Diesel Oil	No.2 Diesel Oil	No.2 Diesel Oil	Emissic	on Rate
	Diesel Oil	54.000	38,298	3,354,894	From Large PL	M Generators
			5,400	473,040	(TONS PE	R YEAR)
	lb/(million BTU.)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Particulates	0.3100	16.7400	1674	146642	0.8370	73.3212
Sulfur Dioxide	0.2900	15.6600	1566	137182	0.7830	68.5908
Oxides of Nitrogen	4.4100	238.1400	23814	2086106	11.9070	1043.0532
Carbon Monoxide	0.9500	51.3000	5130	449388	2.5650	224.6940
Volatile Organic Compounds (VOCs)	0.3600	19.4400	1944	170294	0.9720	85.1472
Total Criteria Pollutants from 6 PLM Generator		5				
					17.0640	1494.8064

1. U.S. EPA Air Pollution Engineering Manual (AP-42), dated 4/93, Chapter 3.4, tables 3.4.1-3.4.5, downloaded from SCRAM BBS.

Actual Hours for PLM Generators are maximum of 100 hours

2. Annual Emission Rate (lb/yr) = Emission Factor (lb/million BTU) x Fuel Consumption (BTU/yr)

3. Total Emission Rate (ton/yr) = Annual Emission Rate (lb/yr) / 2000 (lb/ton)

Pollutants GHG Emissions	Diesel Oil	No.2 Diesel Oil 54	No.2 Diesel Oil 38,298 5,400	No.2 Diesel Oil 3,354,894 473,040	Ann Emissic From Large PL (TONS PE	ual on Rate .M Generators :R YEAR)
	lb/(million BTU.)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	163.05	8804.90	880,489.95	77,130,919.98	4.40E+02	3.86E+04
Methane (CH ₄)	6.61	357.15	35,714.84	3128620.33	1.79E+01	1.56E+03
Nitrous Oxide (N ₂ O)	1.32	71.43	7,142.97	625724.07	3.57E+00	3.13E+02
Carbon Dioxide Equivalents (CO ₂ e)					1950.98	170906.10

1 U.S. EPA Air Pollution Engineering Manual (AP-42), Chapter 3.2, table 3.2-3.

2. Emission Factors are for uncontrolled natural gas fired 4-stroke rich-burn reciprocating engines

3. Annual Emission Rate for NOx and CO (lb/yr) = (Emission Factor (g/bhp-hr) x bhp(max) x (1 lb/454 g)) x 8760 hours. - Based on Emissions guarantee from the Manufacturer with 90% SCR Nox reduction

4. Annual Emission Rate for other criteria pollutants = Emission Factor (lb/million BTU) x Fuel Consumption (BTU/yr).

5. Total Emission Rate (ton/yr) = Annual Emission Rate (lb/yr) / 2000 (lb/ton).

6. Global Warming Potentials (GWPs) for CO2, CH4 and N2O are 1, 25, and 298 respectively (40 CFR 98 Subpart A).

EXHIBIT 5

NYC-HH - New Bellevue Hospital 462 First Avenue, New York, NY 10016

ESTIMATION OF EMISSIONS OF REGULATED AIR CONTAMINANTS FROM 3 Emergency Generators

	Emission Factor	Hourly Emission Rate	Actual Emissions	Potential Emissions	Ann	ual
Hazardous Air Pollutants		No.2 Diesel Oil	No.2 Diesel Oil	No.2 Diesel Oil	Emissio	on Rate
	Diesel Oil	18.000	6,638	1,118,298	From Large El	M Generators
			936	157,680	(TONS PE	R YEAR)
	lb/(million BTU)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Benzene	0.0009	0.0168	0.8733	147.1154	0.000437	0.0736
Toluene	0.0004	0.0074	0.3828	64.4911	0.0002	0.0322
Xylene	0.0003	0.0051	0.2668	44.9388	0.0001	0.0225
Propylene	0.0026	0.0464	2.4149	406.8144	0.0012	0.2034
Formaldehyde	0.0012	0.0212	1.1045	186.0624	0.0006	0.0930
Acetaldehyde	0.0008	0.0138	0.7179	120.9406	0.0004	0.0605
Acrolein	0.0001	0.0017	0.0866	14.5854	0.0000	0.0073
Total PolyAromatic Hydrocarbons	0.0002	0.0030	0.1572	26.4902	0.0001	0.0132
Total Hazardous Air Pollutants	s from 4 Emergen	cy Generators			0.0030	0.5057

	Emission Factor	Hourly Emission Rate	Actual Emissions	Potential Emissions	Ann	ual
Criteria Pollutants		No.2 Diesel Oil	No.2 Diesel Oil	No.2 Diesel Oil	Emissio	on Rate
	Diesel Oil	18.000	6,638	1,118,298	From Large El	M Generators
			936	157,680	(TONS PE	R YEAR)
	lb/(million BTU.)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Particulates	0.3100	5.5800	290	48881	0.1451	24.4404
Sulfur Dioxide	0.2900	5.2200	271	45727	0.1357	22.8636
Oxides of Nitrogen	4.4100	79.3800	4128	695369	2.0639	347.6844
Carbon Monoxide	0.9500	17.1000	889	149796	0.4446	74.8980
Volatile Organic Compounds (VOCs)	0.3600	6.4800	337	56765	0.1685	28.3824
Total Criteria Pollutants from 4 Emergency Ge		erators				
					2.9578	498.2688

1. U.S. EPA Air Pollution Engineering Manual (AP-42), dated 4/93, Chapter 3.4, tables 3.4.1-3.4.5, downloaded from SCRAM BBS.

Actual Hours for PLM Generators are maximum of 100 hours

2. Annual Emission Rate (lb/yr) = Emission Factor (lb/million BTU) x Fuel Consumption (BTU/yr)

3. Total Emission Rate (ton/yr) = Annual Emission Rate (lb/yr) / 2000 (lb/ton)

Pollutants GHG Emissions	Diesel Oil	No.2 Diesel Oil 18	No.2 Diesel Oil 6,638 936	No.2 Diesel Oil 1,118,298 157,680	Annual Emission Rate From Large EM Generatoı (TONS PER YEAR)	
	lb/(million BTU.)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	163.05	2934.97	152,618.26	25,710,306.66	7.63E+01	1.29E+04
Methane (CH ₄)	6.61	119.05	6,190.57	1042873.44	3.10E+00	5.21E+02
Nitrous Oxide (N ₂ O)	1.32	23.81	1,238.11	208574.69	6.19E-01	1.04E+02
Carbon Dioxide Equivalents (CO ₂ e)					338.17	56968.70

1 U.S. EPA Air Pollution Engineering Manual (AP-42), Chapter 3.2, table 3.2-3.

2. Emission Factors are for uncontrolled natural gas fired 4-stroke rich-burn reciprocating engines

3. Annual Emission Rate for NOx and CO (lb/yr) = (Emission Factor (g/bhp-hr) x bhp(max) x (1 lb/454 g)) x 8760 hours. - Based on Emissions guarantee from the Manufacturer with 90% SCR Nox reduction

4. Annual Emission Rate for other criteria pollutants = Emission Factor (lb/million BTU) x Fuel Consumption (BTU/yr).

5. Total Emission Rate (ton/yr) = Annual Emission Rate (lb/yr) / 2000 (lb/ton).

6. Global Warming Potentials (GWPs) for CO2, CH4 and N2O are 1, 25, and 298 respectively (40 CFR 98 Subpart A).

EXHIBIT 6 NYC-HH - New Bellevue Hospital 462 First Avenue, New York, NY 10016

TOTAL FACILITY-WIDE EMISSIONS INVENTORY - ACTUALUSAGE (TONS PER YEAR)

	EMISSIONS FROM STATIONARY SOURCES OF AIR POLLUTION (TPY)				
HAZARDOUS AIR POLLUTANTS	CAS REGISTRY #	Two Cogen Engines	6 PLM Gens	3 Em. Generator	Facility-Wide EMISSIONS TPY
Acetaldehyde	000075-07-0	0.43748	0.002	0.00036	0.43991
Acrolein	000107-02-8	0.41239	0.000	0.00004	0.41269
Benzene	000071-43-2	0.24775	0.003	0.00044	0.25071
Formaldehyde	000050-00-0	3.21447	0.003	0.00055	3.21821
Total PolyAromatic Hydrocarbons	#N/A	0.00000	0.000	0.00008	0.00053
Propylene	000115-07-1	0.00000	0.007	0.00121	0.00817
Toluene	000108-88-3	0.00000	0.001	0.00019	0.00130
XYLENE, M, O & P MIXT.	001330-20-7	0.00000	0.000	0.00000	0.00000
Arsenic	007440-38-2	0.00000	0.000	0.00000	0.00000
Beryllium	007440-41-7	0.00000	0.000	0.00000	0.00000
Cadmium	007440-43-9	0.00000	0.000	0.00000	0.00000
Chromium	007440-47-3	0.00000	0.000	0.00000	0.00000
Lead	007439-92-1	0.00000	0.000	0.00000	0.00000
Manganese	007439-96-5	0.00000	0.000	0.00000	0.00000
Mercury	007439-97-6	0.00000	0.000	0.00000	0.00000
NICKEL METAL AND INSOLUBLE COMPOUNDS	007440-02-0	0.00000	0.000	0.00000	0.00000
То	tal	4.31209	0.01730	0.00287	4.33151
	EMISSIONS F	ROM STATIONA	RY SOURCES	OF AIR POLLUTION (TPY)	TOTAL
CRITERIA POLLUTANTS	CAS	Two Cogen	6 PLM Gens	3 Em. Generator	Facility-Wide
	REGISTRY	Engines			EMISSIONS
	#				TPY
			TPY		
Particulates	0ny075-00-0	4.53319	0.837	0.14508	5.5153
Sulfur Dioxide	007446-09-5	0.09220	0.783	0.13572	1.0109
Oxides of Nitrogen	0NY210-00-0	4.86344	11.907	2.06388	18.8343
Carbon Monoxide	000630-08-0	29.18062	2.565	0.44460	32.1902
Volatile Organic Compounds (VOCs)	0NY998 - 00 - 0	20.42643	0.972	0.16848	21.5669

0NY750 - 00 - 0 18361.35721

59.0959

Total

1950.983

17.0640

338.17037

2.9578

20650.5105

79.1176

Carbon Dioxide Equivalents (CO2e)

EXHIBIT 7 NYC-HH - New Bellevue Hospital 462 First Avenue, New York, NY 10016

TOTAL FACILITY-WIDE EMISSIONS INVENTORY - POTENTIAL USAGE (TONS PER YEAR)

	EMISSIONS F	ROM STATIONA	RY SOURCES	OF AIR POLLUTION (TPY)	TOTAL
HAZARDOUS AIR POLLUTANTS	CAS REGISTRY #	Two Cogen Engines	6 PLM Gens	3 Em. Generator	Facility-Wide EMISSIONS TPY
Acetaldehyde	000075-07-0	0.47904	0.181	0.06047	0.72092
Acrolein	000107-02-8	0.45157	0.022	0.00729	0.48074
Benzene	000071-43-2	0.27129	0.221	0.07356	0.56552
Formaldehyde	000050-00-0	3.51984	0.279	0.09303	3.89197
Total PolyAromatic Hydrocarbons	#N/A	0.00000	0.040	0.01325	0.05298
Propylene	000115-07-1	0.00000	0.610	0.20341	0.81363
Toluene	000108-88-3	0.00000	0.097	0.03225	0.12898
XYLENE, M, O & P MIXT.	001330-20-7	0.00000	0.000	0.00000	0.00000
Arsenic	007440-38-2	0.00000	0.000	0.00000	0.00000
Beryllium	007440-41-7	0.00000	0.000	0.00000	0.00000
Cadmium	007440-43-9	0.00000	0.000	0.00000	0.00000
Chromium	007440-47-3	0.00000	0.000	0.00000	0.00000
Lead	007439-92-1	0.00000	0.000	0.00000	0.00000
Manganese	007439-96-5	0.00000	0.000	0.00000	0.00000
Mercury	007439-97-6	0.00000	0.000	0.00000	0.00000
NICKEL METAL AND INSOLUBLE COMPOUNDS	007440-02-0	0.00000	0.000	0.00000	0.00000
Tota	I	4.72174	1.44975	0.48325	6.65474
	EMISSIONS F	ROM STATIONA	RY SOURCES	OF AIR POLLUTION (TPY)	TOTAL
CRITERIA POLLUTANTS	CAS	Two Cogen	6 PLM Gens	3 Em. Generator	Facility-Wide
	REGISTRY	Engines			EMISSIONS
	#				TPY
		TPY	TPY	TPY	
Particulates	0ny075-00-0	4.9638	73.321	24.44040	102.7254
	007440.00 5	0.4040	00 504	00.00000	

Particulates	0ny075-00-0	4.9038	73.321	24.44040	102.7254
Sulfur Dioxide	007446-09-5	0.1010	68.591	22.86360	91.5554
Oxides of Nitrogen	0NY210-00-0	5.3255	1043.053	347.68440	1396.0631
Carbon Monoxide	000630-08-0	31.9528	224.694	74.89800	331.5448
Volatile Organic Compounds (VOCs)	0NY998 - 00 - 0	22.3669	85.147	28.38240	135.8965
Carbon Dioxide Equivalents (CO2e)	0NY750 - 00 - 0	20105.68615	170906.100	56968.70004	247980.4863
Tota	1	64.7100	1494.8064	498.2688	250038.2715

EXHIBIT 8 NYC-HH - New Bellevue Hospital 462 First Avenue, New York, NY 10016

ESTIMATION OF EMISSIONS OF REGULATED AIR CONTAMINANTS FROM 4 PLM Generators - Process GEN

	Emission Factor	Hourly Emission Rate	Actual Emissions	Potential Emissions	Ann	ual
Hazardous Air Pollutants		No.2 Diesel Oil	No.2 Diesel Oil	No.2 Diesel Oil	Emissio	on Rate
	Diesel Oil	30.000	21,277	1,863,830	From Large PL	M Generators
			3,000	262,800	(TONS PE	R YEAR)
	lb/(million BTU)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Benzene	0.0009	0.0280	2.7990	245.1924	0.001400	0.1226
Toluene	0.0004	0.0123	1.2270	107.4852	0.0006	0.0537
Xylene	0.0003	0.0086	0.8550	74.8980	0.0004	0.0374
Propylene	0.0026	0.0774	7.7400	678.0240	0.0039	0.3390
Formaldehyde	0.0012	0.0354	3.5400	310.1040	0.0018	0.1551
Acetaldehyde	0.0008	0.0230	2.3010	201.5676	0.0012	0.1008
Acrolein	0.0001	0.0028	0.2775	24.3090	0.0001	0.0122
Total PolyAromatic Hydrocarbons	0.0002	0.0050	0.5040	44.1504	0.0003	0.0221
		0.1924				
Total Hazardous Air Pollutants	s from 4 PLM Gen	erators			0.0096	0.8429

	Emission Factor	Hourly Emission Rate	Actual Emissions	Potential Emissions	Ann	ual
Criteria Pollutants		No.2 Diesel Oil	No.2 Diesel Oil	No.2 Diesel Oil	Emissio	on Rate
	Diesel Oil	30.000	21,277	1,863,830	From Large PL	M Generators
			3,000	262,800	(TONS PE	R YEAR)
	lb/(million BTU.)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Particulates	0.3100	9.3000	930	81468	0.4650	40.7340
Sulfur Dioxide	0.2900	8.7000	870	76212	0.4350	38.1060
Oxides of Nitrogen	4.4100	132.3000	13230	1158948	6.6150	579.4740
Carbon Monoxide	0.9500	28.5000	2850	249660	1.4250	124.8300
Volatile Organic Compounds (VOCs)	0.3600	10.8000	1080	94608	0.5400	47.3040
Total Criteria Pollutants from 4 PLM Generators		6				
					9.4800	830.4480

1. U.S. EPA Air Pollution Engineering Manual (AP-42), dated 4/93, Chapter 3.4, tables 3.4.1-3.4.5, downloaded from SCRAM BBS.

Actual Hours for PLM Generators are maximum of 100 hours

2. Annual Emission Rate (lb/yr) = Emission Factor (lb/million BTU) x Fuel Consumption (BTU/yr)

3. Total Emission Rate (ton/yr) = Annual Emission Rate (lb/yr) / 2000 (lb/ton)

Pollutants GHG Emissions	Diesel Oil	No.2 Diesel Oil 30	No.2 Diesel Oil 21,277 3,000	No.2 Diesel Oil 1,863,830 262,800	Ann Emissic From Large PL (TONS PE	ual on Rate M Generators R YEAR)
	lb/(million BTU.)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	163.05	4891.61	489,161.09	42,850,511.10	2.45E+02	2.14E+04
Methane (CH ₄)	6.61	198.42	19,841.58	1738122.41	9.92E+00	8.69E+02
Nitrous Oxide (N ₂ O)	1.32	39.68	3,968.32	347624.48	1.98E+00	1.74E+02
Carbon Dioxide Equivalents (CO ₂ e)					1083.88	94947.83

1 U.S. EPA Air Pollution Engineering Manual (AP-42), Chapter 3.2, table 3.2-3.

2. Emission Factors are for uncontrolled natural gas fired 4-stroke rich-burn reciprocating engines

3. Annual Emission Rate for NOx and CO (lb/yr) = (Emission Factor (g/bhp-hr) x bhp(max) x (1 lb/454 g)) x 8760 hours. - Based on Emissions guarantee from the Manufacturer with 90% SCR Nox reduction

4. Annual Emission Rate for other criteria pollutants = Emission Factor (lb/million BTU) x Fuel Consumption (BTU/yr).

5. Total Emission Rate (ton/yr) = Annual Emission Rate (lb/yr) / 2000 (lb/ton).

6. Global Warming Potentials (GWPs) for CO2, CH4 and N2O are 1, 25, and 298 respectively (40 CFR 98 Subpart A).

EXHIBIT 9 NYC-HH - New Bellevue Hospital 462 First Avenue, New York, NY 10016

ESTIMATION OF EMISSIONS OF REGULATED AIR CONTAMINANTS FROM 2 PLM Generators - Process GEG

	Emission Factor	Hourly Emission Rate	Actual Emissions	Potential Emissions	Ann	ual
Hazardous Air Pollutants		No.2 Diesel Oil	No.2 Diesel Oil	No.2 Diesel Oil	Emissio	on Rate
	Diesel Oil	24.000	17,021	1,491,064	From Large PL	M Generators
			2,400	210,240	(TONS PE	R YEAR)
	lb/(million BTU)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Benzene	0.0009	0.0224	2.2392	196.1539	0.001120	0.0981
Toluene	0.0004	0.0098	0.9816	85.9882	0.0005	0.0430
Xylene	0.0003	0.0068	0.6840	59.9184	0.0003	0.0300
Propylene	0.0026	0.0619	6.1920	542.4192	0.0031	0.2712
Formaldehyde	0.0012	0.0283	2.8320	248.0832	0.0014	0.1240
Acetaldehyde	0.0008	0.0184	1.8408	161.2541	0.0009	0.0806
Acrolein	0.0001	0.0022	0.2220	19.4472	0.0001	0.0097
Total PolyAromatic Hydrocarbons	0.0002	0.0040	0.4032	35.3203	0.0002	0.0177
		0.1539				
Total Hazardous Air Pollutants	s from 2 PLM Gen	erators			0.0077	0.6743

	Emission Factor	Hourly Emission Rate	Actual Emissions	Potential Emissions	Ann	ual
Criteria Pollutants		No.2 Diesel Oil	No.2 Diesel Oil	No.2 Diesel Oil	Emissio	on Rate
	Diesel Oil	24.000	17,021	1,491,064	From Large PL	M Generators
			2,400	210,240	(TONS PE	R YEAR)
	lb/(million BTU.)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Particulates	0.3100	7.4400	744	65174	0.3720	32.5872
Sulfur Dioxide	0.2900	6.9600	696	60970	0.3480	30.4848
Oxides of Nitrogen	4.4100	105.8400	10584	927158	5.2920	463.5792
Carbon Monoxide	0.9500	22.8000	2280	199728	1.1400	99.8640
Volatile Organic Compounds (VOCs)	0.3600	8.6400	864	75686	0.4320	37.8432
Total Criteria Pollutants from	2 PLM Generators	6				
-					7.5840	664.3584

1. U.S. EPA Air Pollution Engineering Manual (AP-42), dated 4/93, Chapter 3.4, tables 3.4.1-3.4.5, downloaded from SCRAM BBS.

Actual Hours for PLM Generators are maximum of 100 hours

2. Annual Emission Rate (lb/yr) = Emission Factor (lb/million BTU) x Fuel Consumption (BTU/yr)

3. Total Emission Rate (ton/yr) = Annual Emission Rate (lb/yr) / 2000 (lb/ton)

Pollutants GHG Emissions	Diesel Oil	No.2 Diesel Oil 24	No.2 Diesel Oil 17,021 2,400	No.2 Diesel Oil 1,491,064 210,240	Ann Emissic From Large PL (TONS PE	ual on Rate M Generators R YEAR)
	lb/(million BTU.)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	163.05	3913.29	391,328.87	34,280,408.88	1.96E+02	1.71E+04
Methane (CH ₄)	6.61	158.73	15,873.26	1390497.93	7.94E+00	6.95E+02
Nitrous Oxide (N ₂ O)	1.32	31.75	3,174.65	278099.59	1.59E+00	1.39E+02
Carbon Dioxide Equivalents (CO ₂ e)					867.10	75958.27

1 U.S. EPA Air Pollution Engineering Manual (AP-42), Chapter 3.2, table 3.2-3.

2. Emission Factors are for uncontrolled natural gas fired 4-stroke rich-burn reciprocating engines

3. Annual Emission Rate for NOx and CO (lb/yr) = (Emission Factor (g/bhp-hr) x bhp(max) x (1 lb/454 g)) x 8760 hours. - Based on Emissions guarantee from the Manufacturer with 90% SCR Nox reduction

4. Annual Emission Rate for other criteria pollutants = Emission Factor (Ib/million BTU) x Fuel Consumption (BTU/yr).

5. Total Emission Rate (ton/yr) = Annual Emission Rate (lb/yr) / 2000 (lb/ton).

6. Global Warming Potentials (GWPs) for CO2, CH4 and N2O are 1, 25, and 298 respectively (40 CFR 98 Subpart A).

EPA Certificate of Conformity

Certificate 1: S0007 and S0008 Certificate 2: ER006 Certificate 3: BS007

STATICS + DOUBOR	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 2022 MODEL YEAR CERTIFICATE OF CONFORMITY WITH THE CLEAN AIR ACT		OFFICE OF TRANS AND AIR QU ANN ARBOR, MICH	PORTATION ALITY HGAN 48105	
Certificate Issued To: Cate (U.S. I Certificate Number: NCPX	e rpillar Inc. Manufacturer or Importer) B78.1CWL-010	Effective Date: 12/23/2021 Expiration Date: 12/31/2022	Byron J. Bunker Complian	r, Division Director nce Division	Issue Date: 12/23/2021 Revision Date: N/A
Manufacturer: Caterpillar Ir Engine Family: NCPXB78.1 Mobile/Stationary Certifica Fuel : Natural Gas (CNG/LN Emission Standards : Part 60 Subpart JJJJ Table I VOC (g/Hp-hr): 0.7 NOx (g/Hp-hr): 1.0 CO (g/Hp-hr): 2.0 Emergency Use Only : N	ic. CWL tion Type: S tationary G)	TEDSTA			

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 60, 1065, 1068, and 60 (stationary only and combined stationary and mobile) and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following nonroad engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new nonroad spark-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60. This certificate of conformity does not cover nonroad engines imported prior to the effective date of the certificate.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068.20 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover large nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 2017 MODEL YEAR CERTIFICATE OF CONFORMITY WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION AND AIR QUALITY ANN ARBOR, MICHIGAN 48105

Certificate Issued To: Caterpillar Inc. (U.S. Manufacturer or Importer) Certificate Number: HCPXL78.1NZS-016	Effective Date: 07/29/2016 Expiration Date: 12/31/2017	Byron J. Bunker, Division Director Compliance Division	Issue Date: 07/29/2016 Revision Date: N/A
Model Year: 2017 Manufacturer Type: Original Engine Manufacturer Engine Family: HCPXL78.1NZS	Mobi Emiss Fuel After Non-	le/Stationary Indicator: Stationary sions Power Category: kW>560 Fype: Diesel Treatment Devices: No After Treatment Devices Installed ofter Treatment Devices: Electronic Control Engine Design Modific:	ation

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

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This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

2003 Model Year Certificate of Conformity

Manufacturer: **Cummins Inc.** Certificate Number: Effective Date: 11/18/02 Date Issued: 11/18/02

CEX-NR9-03-29

Gregory A. Green, Director Certification and Compliance Division Office of Transportation and Air Quality

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR 89, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following nonroad engines, by engine family, more fully described in the documentation required by 40 CFR Part 89 and produced in the stated model year.

Nonroad Diesel Engine Family:

B573 3CEXL030.ABA

This certificate of conformity covers only those new nonroad compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 89 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 89. This certificate of conformity does not cover nonroad engines imported prior to the effective date of the certificate.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 89.129-96 and 89.506-96 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 89. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void ab initio for other reasons specified in 40 CFR Part 89.

This certificate does not cover nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

Full Environmental Assessment Form Part 1

Full Environmental Assessment Form Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:	to interact of the	and the second		
NYC-HH - New Bellevue Hospital	instances in the first	and the second		
Project Location (describe, and attach a general location map):				
462 First Ave. New York, NY 10016				
Brief Description of Proposed Action (include purpose or need):				
The purpose of this application is to renew the current state facility air permit for NYC- two (2) new natural gas fired co-generation engines - Caterpillar model G3516H, each requirements, the following generators are participating in Demand Response (DR) Pr	HHC Bellevue Hospital. The hospital the hospital of the hospital with 1982 kW rating. Also in ord ogram:	pital is in the process of installing er to meet NYSDEC's part 222		
- Four (4) Cat C27 generators on 13th floor				
- One (1) Caterpillar 3512C - One (1) Cummins 3100 located in basement.				
Best of the generators (three) are for emergency purpose only	หมายสารีสารแรง สาราช โล. 1			
sector to provide the sector of the sector be				
Name of Applicant/Sponsor:	Telephone:	and the state of the second		
New York City Health & Hospitals Corporation	E-Mail:	E-Mail:		
Address: 125 Worth St	anna a chuir stiadh an caonn. Add bo cocaitell	e co de subromun acoped Proto lle responsi action		
City/PO: New York	State: NY	Zip Code: 10013		
Project Contact (if not same as sponsor; give name and title/role):	Telephone: (212) 562-	7111		
Patrick Benn, Chief Engineer	E-Mail: bennp4@nych	nhc.org		
Address:		Cresteany the plane):		
462 First Ave.				
City/PO:	State:	Zip Code:		
New York	New York	10016		
Property Owner (if not same as sponsor):	Telephone:	result only spectrum disk is		
	E-Mail:			
Address:				
City/PO:	State:	Zip Code:		

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Covernment Entity	If Voc Identify A gamer and A manager (a)	Analisedian Data
Government Entity	Required	(Actual or projected)
a. City Counsel, Town Board, □Yes No or Village Board of Trustees	n/a	n/a
b. City, Town or Village ☐Yes ☑No Planning Board or Commission	n/a	n/a
c. City, Town or □Yes ☑No Village Zoning Board of Appeals	n/a	n/a
d. Other local agencies ✓Yes□No	New York City Department of Environmental Protection (NYCDEP)	projected in 2022
e. County agencies □Yes ☑No	n/a	n/a
f. Regional agencies	New York City Department of Buildings (NYCDOB)	projected in 2022
g. State agencies ✓Yes□No	New York State Department of Environmental Conservation (NYSDEC) - State Facility Permit	1/12/2022
h. Federal agencies ✓Yes□No	United States Environmental Protection Agency (USEPA) - State Facility Permit	1/12/2022 - Application submitted to NYDEC
i. Coastal Resources.<i>i</i>. Is the project site within a Coastal Area, o	r the waterfront area of a Designated Inland W	aterway? ✓Yes□No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? *iii.* Is the project site within a Coastal Erosion Hazard Area? ☑ Yes□No □ Yes☑No

C. Planning and Zoning

C.1. Planning and zoning actions.	
 Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? If Yes, complete sections C, F and G. If No, proceed to question C.2 and complete all remaining sections and questions in Part 1 	□Yes 2 No
C.2. Adopted land use plans.	* , 1 %] · · · b
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located?	□Yes 2 No
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located?	□Yes 2No
 b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) If Yes, identify the plan(s); 	□Yes □ No
n/a	
 c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? If Yes, identify the plan(s): 	☐Yes 2No

C.S. Zoning	
a. Is the site of the proposed action located in a municipality with an adopted zoning law or ord If Yes, what is the zoning classification(s) including any applicable overlay district? R8 and C2-5	linance.
b. Is the use permitted or allowed by a special or conditional use permit?	Yes No
c. Is a zoning change requested as part of the proposed action?If Yes,<i>i</i>. What is the proposed new zoning for the site? n/a	☐ Yes Z No
C.4. Existing community services.	ng belandrag seven only couply
a. In what school district is the project site located? New York City Department of Education, Manhatta	an District 2
b. What police or other public protection forces serve the project site? lew York City Police Department, 13th Precinct	na se Primare a suaregar na la compre Ana de completentes de compre
c. Which fire protection and emergency medical services serve the project site? lew York City Fire Department, Company E016	ng ng gangan ng gang ting ng gang ng sa
d. What parks serve the project site? Bellevue South Park	
D. Project Details	
D. Project Details D.1. Proposed and Potential Development	an abalant mater tari qeta, nin a-
 D. Project Details D.1. Proposed and Potential Development a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recomponents)? Commercial - Installation of two (2) new natural gas fired co-generation engines	creational; if mixed, include all
D. Project Details D.1. Proposed and Potential Development a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recomponents)? Commercial - Installation of two (2) new natural gas fired co-generation engines b. a. Total acreage of the site of the proposed action? 0.5 acres b. Total acreage to be physically disturbed? 0.2 acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 10 acres	reational; if mixed, include all
D. Project Details D.1. Proposed and Potential Development a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recomponents)? Commercial - Installation of two (2) new natural gas fired co-generation engines b. a. Total acreage of the site of the proposed action? 0.5 acres b. Total acreage to be physically disturbed? 0.2 acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 10 acres c. Is the proposed action an expansion of an existing project or use? i. If Yes, what is the approximate percentage of the proposed expansion and identify the units square feet)?	reational; if mixed, include all s. Ves No (e.g., acres, miles, housing units,
D. Project Details D.1. Proposed and Potential Development a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recomponents)? Commercial - Installation of two (2) new natural gas fired co-generation engines b. Total acreage of the site of the proposed action? 0.5 acres b. Total acreage to be physically disturbed? 0.2 acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 10 acres c. Is the proposed action an expansion of an existing project or use? i. If Yes, what is the approximate percentage of the proposed expansion and identify the units square feet)? b. Is the proposed action a subdivision, or does it include a subdivision?	rreational; if mixed, include all s. □ Yes No (e.g., acres, miles, housing units, □Yes No
D. Project Details D.1. Proposed and Potential Development a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recomponents)? Commercial - Installation of two (2) new natural gas fired co-generation engines b. a. Total acreage of the site of the proposed action? 0.5 acres b. Total acreage to be physically disturbed? 0.2 acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 10 acres c. Is the proposed action an expansion of an existing project or use? i. If Yes, what is the approximate percentage of the proposed expansion and identify the units square feet)? %	reational; if mixed, include all s. (e.g., acres, miles, housing units, Yes ZNo pes)
D. Project Details D.1. Proposed and Potential Development a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recomponents)? Commercial - Installation of two (2) new natural gas fired co-generation engines b. a. Total acreage of the site of the proposed action? 0.5 acres b. Total acreage to be physically disturbed? 0.2 acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 10 acres 2. Is the proposed action an expansion of an existing project or use? i. If Yes, what is the approximate percentage of the proposed expansion and identify the units square feet)? % h. Is the proposed action a subdivision, or does it include a subdivision? f Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify ty a iii. Is a cluster/conservation layout proposed? n/a iii. Number of lots proposed? n/a iv. Minimum and maximum proposed lot sizes? Minimum n/a	reational; if mixed, include all (e.g., acres, miles, housing units, Yes No pes) Yes No
D. Project Details D.1. Proposed and Potential Development a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recomponents)? Commercial - Installation of two (2) new natural gas fired co-generation engines b. What is the general nature of the proposed action? 0.5 acres c. components)? Commercial - Installation of two (2) new natural gas fired co-generation engines b. Total acreage of the site of the proposed action? 0.5 acres b. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 10 acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 10 acres i. Is the proposed action an expansion of an existing project or use? i. If Yes, what is the approximate percentage of the proposed expansion and identify the units square feet)? % n/a Units: n/a Units: n/a i. Is the proposed action a subdivision, or does it include a subdivision? f Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify ty a a i. Is a cluster/conservation layout proposed? ii. Is a cluster/conservatio	reational; if mixed, include all Yes No (e.g., acres, miles, housing units, Yes No pes) Yes No Yes No Yes No

C.D the main	at in also da marro mari	dantial waa?			Ves No
I. Does the proje	ct include new resi	osed			
11 1 05, 5110 11 11	One Family	Two Family	Three Family	Multiple Family (four or more)	
T 1 DI	<u></u>	~/~		n/a	
Initial Phase	n/a	Na	II/d		
of all phases	n/a	n/a	n/a	n/a	
or un priuses	· · · · · · · · · · · · · · · · · · ·				N as N a
g. Does the prop	osed action include	e new non-residenti	al construction (inclu	iding expansions)?	Yes INO
If Yes,	C				
<i>i</i> . Total numbe	r of structures	1 structure:	25 height	45 width: and 78 length	
iii Approximate	(in feet) of largest	snace to be heated	or cooled:	0 square feet	
		, space to be neated	or coorda	1 regult in the impoundment of any	Ves No
h. Does the prop	osed action include	e construction or ot	r pond lake waste l	agoon or other storage?	105 110
If Ves	as creation of a wa	ter suppry, reserver	, pond, lake, waste i	agoon of outer storage.	
<i>i</i> . Purpose of th	e impoundment: n/	a			passing 1.0
<i>ii</i> . If a water im	poundment, the pri	ncipal source of the	e water:	Ground water Surface water strea	ims Other specify:
n/a					
iii. If other than	water, identify the	type of impounded	contained liquids an	d their source.	
n/a		ad impoundment	Volume	p/a million gallons: surface area:	n/a acres
<i>iv.</i> Approximate	of the proposed day	m or impounding si	ructure n	/a height: n/a length	
v. Dimensions	method/materials	for the proposed d	am or impounding st	ructure (e.g., earth fill, rock, wood, con	ncrete):
n/a	i metro a materiario	for the propriet	1 5		ana - 11 Anno - 11 An
D.2. Project O	perations			an a she a she she she she she she she she	
a. Does the prop (Not including materials will	osed action includ g general site prepa remain onsite)	e any excavation, n aration, grading or i	nining, or dredging, constallation of utilities	luring construction, operations, or both s or foundations where all excavated	
If Yes.	Temam onsite)				
<i>i</i> . What is the r	ourpose of the exca	vation or dredging	n/a		
ii. How much m	naterial (including 1	ock, earth, sedimer	nts, etc.) is proposed	to be removed from the site?	
Volum	e (specify tons or o	cubic yards): <u>n/a</u>			
Over w	what duration of tin	ne? <u>n/a</u>		1 1 1 1 to an analysis of distance	a of them
iii. Describe nat	ure and characteris	stics of materials to	be excavated or drec	iged, and plans to use, manage of dispo	ise of mem.
n/a					and a second
in Will there h	a onsite dewaterin	g or processing of	excavated materials?		Yes No
IV. WIII LIEFE U	ribe n/a	g of processing of	cheavated materials.		
11 yes, dese	1100. <u>11/a</u>	Contraction of Department of D	1997 - 19		
w What is the	total area to be dre	dged or excavated?		n/a_acres	
vi. What is the	maximum area to	be worked at any or	ne time?	n/a_acres	
vii. What would	l be the maximum	depth of excavation	or dredging?	n/a feet	
viii. Will the ex	cavation require bl	asting?			L Y es No
ix. Summarize	site reclamation go	als and plan:			
n/a					
			• • • •	acrossing size of or engrouchment	Ves
b. Would the pr	roposed action cau	se or result in altera	tion of, increase or d	Provide the size of, of encroachinent	
into any exi	sting wetland, wate	erooay, snoreline, b	cach or aujacent area		
II Yes:	watland or water	ody which would k	e affected (by name.	water index number, wetland map nur	nber or geographic
description) n/2	ing millen would t	- arrester (ef mane,		
	/ 1 <u>//a</u>				

<i>ii.</i> Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placent alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in sc	nent of structures, or juare feet or acres:
/a	
<i>iii.</i> Will the proposed action cause or result in disturbance to bottom sediments? If Yes, describe: n/a	□Yes □No
<i>iv.</i> Will the proposed action cause or result in the destruction or removal of aquatic vegetation? If Yes:	☐ Yes No
• acres of aquatic vegetation proposed to be removed: <u>n/a</u>	
• expected acreage of aquatic vegetation remaining after project completion: n/a	
• purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):	
• proposed method of plant removal: n/a	
• if chemical/herbicide treatment will be used, specify product(s): n/a	
v. Describe any proposed reclamation/mitigation following disturbance:	
Will the proposed action use, or create a new demand for water?	TYes ZNo
Yes:	
<i>i</i> . Total anticipated water usage/demand per day: <i>n/a</i> gallons/day	
Yes:	☐Yes ☐No
• Name of district or service area: p/a	
• Does the existing public water supply have capacity to serve the proposal?	
• Is the project site in the existing district?	
• Is expansion of the district needed?	
• Do existing lines serve the project site?	\Box Yes \Box No
<i>i</i> . Will line extension within an existing district be necessary to supply the project?	
Yes:	
Describe extensions or capacity expansions proposed to serve this project:	
	TTRV SPECTOR
• Source(s) of supply for the district: n/a	Commence of the second s
Yes:	☐ Yes ☐No
Applicant/sponsor for new district: n/a Date application submitted or anticipated	
Proposed source(s) of supply for new district: n/a	entaj novitio e districto strati contro protocologo
<i>v</i> . If a public water supply will not be used, describe plans to provide water supply for the project:	Patients and a second
. If water supply will be from wells (public or private), what is the maximum pumping conceiving	
Will the proposed action generate liquid wastes?	gallons/minute.
Yes:	
Total anticipated liquid waste generation per day: n/a gallons/day	
. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all	components and
approximate volumes or proportions of each):	
	100
Will the proposed action use any existing public wastewater treatment facilities?	
If Yes:	
Name of wastewater treatment plant to be used: n/a	
Name of district: n/a	16(P3(8-0
 Does the existing wastewater treatment plant have capacity to serve the project? Is the project site in the existing distribution 	□ Yes □No
 Is the project site in the existing district? Is expansion of the district needed? 	☐ Yes ☐ No
- is expansion of the district needed?	☐ Yes ☐ No

	hand 4.2 hand 4.4
• Do existing sewer lines serve the project site?	∐Yes_No
 Will a line extension within an existing district be necessary to serve the project? 	∐Yes _No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project:	
/a	
v. Will a new wastewater (sewage) treatment district be formed to serve the project site?	
If Yes:	
Applicant/sponsor for new district: n/a	
Date application submitted or anticipated:n/a	
• What is the receiving water for the wastewater discharge? n/a	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including	specifying proposed
receiving water (name and classification if surface discharge or describe subsurface disposal plans):	
/a	an takana takan ata da akaran da akaran da akaran da a
	A MARKANI STREET
<i>i</i> . Describe any plans or designs to capture, recycle or reuse liquid waste:	
a	unanden fra de la la companya de la
	Friday Barton
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point	Yes No
sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point	
source (i.e. sheet flow) during construction or post construction?	
f Yes:	
<i>i</i> . How much impervious surface will the project create in relation to total size of project parcel?	
<u>n/a</u> Square feet or <u>n/a</u> acres (impervious surface)	
<u>n/a</u> Square feet or <u>n/a</u> acres (parcel size)	
<i>ii.</i> Describe types of new point sources.n/a	
iii Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjac	ent properties,
aroundwater on-site surface water or off-site surface waters)?	r i ,
groundwater, on-site surface water of on-site surface waters).	
• If to surface waters identify receiving water bodies or wetlands:	
n/a	
• Will stormwater runoff flow to adjacent properties?	
iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwa	ter? Yes No
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	Y es No
combustion, waste incineration, or other processes or operations?	
If Yes, identify:	
<i>i</i> . Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
one	
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
lone	
<i>Two</i> (2) new natural gas fired co-generation engines - Caterpillar model G3516H, each with 1982 kW rating.	
a Will any air emission sources named in D 2 f (above) require a NY State Air Registration. Air Facility Perm	nit, Yes No
or Federal Clean Air Act Title IV or Title V Permit?	
If Yes:	paraticing desitioning
<i>i</i> . Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	⊿ Yes □ No
ambient air quality standards for all or some parts of the year)	
<i>ii.</i> In addition to emissions as calculated in the application, the project will generate:	
• 14.126 Tons/year (short tons) of Carbon Dioxide (CO ₂)	
$0.27 \text{ Tons/year (short tons) of Nitrous Oxide (N_2O)}$	
• 0 Tons/year (short tons) of Perfluorocarbons (PFCs)	
• 0 Tons/year (short tons) of Sulfur Heyafluoride (SF2)	
• • • • • • • • • • • • • • • • • • •	
3 43 Tons/year (short tons) of Hazardous Air Pollutante (HAPs)	
• <u>1015/year (Short tons) of nazardous All Folititants</u>	

addition control time factility	s)?	including, but not limited to, se	wage treatment plants,	Yes No
If Yes:				
<i>i</i> . Estimate methane generation	in tons/vear (metric).	2/2		
<i>ii.</i> Describe any methane capture	re control or eliminati	on measures included in preject	design (a g annt sting)	<u></u>
electricity, flaring):n/a	re, control of chilinati	on measures menuded in project	design (e.g., combustion to	generate heat or
	Tarrie A service and says	B is the shareh tool and care law		
Will the proposed action resul	It in the release of air	allutanta from anon in ti		<u>anza Grontian pri V</u>
allarry or landfill operations?	it in the release of air p	onutants from open-air operatio	ns or processes, such as	Yes No
f Yes: Describe operations and	nature of emissions (e	a discal arbaust mails martian	stan (1 1)	
a	natare of enhissions (e	.g., these exhaust, lock particul	ates/dust):	
1.44 (SAL)	later en bainarie en	and the left of the second of the		
. Will the proposed action result	t in a substantial increa	ase in traffic above present level	s or generate substantial	Ves No
new demand for transportation	n facilities or services?		haddel a deite service not	
i Withom is the world of CC				
Dundomly batwan have	ected (Check all that a	pply): \Box Morning \Box E	vening U Weekend	
<i>ii</i> For commercial activities of	or <u>n/a</u> to	<u>n/a</u> .	and the second se	
<i>u</i> . For commercial activities of	my, projected number	of truck trips/day and type (e.g.,	semi trailers and dump truck	ks):
		n/a	C Maneton 2017 de composi-	
iii. Parking spaces: Existing	gn/a	Proposed n/a N	et increase/decrease	n/a
v. Does the proposed action in	clude any shared use p	arking?		
. If the proposed action inclu-	des any modification c	f existing roads creation of new	roads or change in origina	
(1997) - C. (1997)	an and a second grade	reaction of new	Toads of change in existing	g access, describe:
Ano mulalio/maint - 1				
. Are public/private transporta	tion service(s) or facili	ties available within 1/2 mile of t	he proposed site?	Noc No
<i>i</i> Will the proposed action incl	lude access to public tr	ties available within ½ mile of t ansportation or accommodation	he proposed site?	Yes No
<i>i</i> Will the proposed action incl or other alternative fueled ve	lude access to public tr hicles?	ties available within ½ mile of t ansportation or accommodations	he proposed site? s for use of hybrid, electric	Yes No Yes No
 i Will the proposed action incl or other alternative fueled ve ii. Will the proposed action inc 	luce service(s) or facility luce access to public tr whicles? Shude plans for pedestri	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f	he proposed site? s for use of hybrid, electric or connections to existing	☐Yes☐No ☐Yes☐No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve Will the proposed action inc pedestrian or bicycle routes? 	tion service(s) or facili lude access to public tr chicles? lude plans for pedestri ?	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f	he proposed site? s for use of hybrid, electric or connections to existing	☐Yes☐No ☐Yes☐No ☐Yes☐No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve Will the proposed action inc pedestrian or bicycle routes? 	tion service(s) or facili lude access to public tr chicles? clude plans for pedestri	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f	he proposed site? a for use of hybrid, electric or connections to existing	☐Yes☐No ☐Yes☐No ☐Yes☐No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c 	tion service(s) or facility lude access to public tr whicles? Hude plans for pedestri	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f	he proposed site? 5 for use of hybrid, electric or connections to existing	Yes No Yes No
 Will the proposed action incl or other alternative fueled ve Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? 	tion service(s) or facili lude access to public tr chicles? Flude plans for pedestri commercial or industria	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or	the proposed site? Is for use of hybrid, electric for connections to existing	☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes No
Will the proposed action incl or other alternative fueled ve ii. Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes:	tion service(s) or facili lude access to public tr chicles? clude plans for pedestri commercial or industric	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or	he proposed site? s for use of hybrid, electric or connections to existing • additional demand	☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☑No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity der 	tion service(s) or facili lude access to public tr chicles? clude plans for pedestri commercial or industria mand during operation	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action:	he proposed site? a for use of hybrid, electric or connections to existing • additional demand	☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☑No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity der 	tion service(s) or facility function service(s) or facility function for public transfer public services? For product the plans for pedestrict services for industrict services of the plans for industrict services of the plans for industrict services of the plans for pedestrict services of the plans for ped	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action:	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand	☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes₽No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity det Anticipated sources/suppliers 	tion service(s) or facility hude access to public tr whicles? Hude plans for pedestric commercial or industric mand during operation of electricity for the p	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action: roject (e.g., on-site combustion.	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand	Yes No Yes No Yes No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve ii. Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity des Anticipated sources/suppliers other): 	tion service(s) or facility lude access to public tr whicles? Hude plans for pedestric commercial or industric mand during operation of electricity for the p	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action: roject (e.g., on-site combustion,	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand on-site renewable, via grid/1	Yes No Yes No Yes No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity des Anticipated sources/suppliers other): 	tion service(s) or facility lude access to public treshicles? Flude plans for pedestric commercial or industric mand during operation of electricity for the p	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action: roject (e.g., on-site combustion,	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand on-site renewable, via grid/1	Yes No Yes No Yes No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity der Anticipated sources/suppliers other): Will the proposed action require 	tion service(s) or facility hude access to public treshicles? Hude plans for pedestric commercial or industric mand during operation of electricity for the public ire a new, or an upgrace	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action: roject (e.g., on-site combustion, le, to an existing substation?	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand on-site renewable, via grid/1	Yes No Yes No Yes No Yes No Ves No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve ii. Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity des Anticipated sources/suppliers other): Will the proposed action require 	tion service(s) or facility hude access to public treshicles? Hude plans for pedestric commercial or industric mand during operation of electricity for the p ire a new, or an upgrac	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action: roject (e.g., on-site combustion,	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand on-site renewable, via grid/1	Yes No Yes No Yes No Yes No Yes No local utility, or Yes Yes No
 Are public/private transporta i Will the proposed action incl or other alternative fueled ve ii. Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity der Anticipated sources/suppliers other): Will the proposed action requires 	tion service(s) or facility hude access to public transfer chicles? Hude plans for pedestric commercial or industric mand during operation of electricity for the p ire a new, or an upgrace l items which apply.	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action: roject (e.g., on-site combustion, le, to an existing substation?	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand on-site renewable, via grid/]	Yes No Yes No Yes No Yes No
 Arte public/private transporta Will the proposed action incl or other alternative fueled ve <i>ii.</i> Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity des Anticipated sources/suppliers other): Will the proposed action requires Hours of operation. Answer all During Construction: 	tion service(s) or facility bude access to public transfer chicles? commercial or pedestric mand during operation of electricity for the p ire a new, or an upgrace l items which apply.	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action: roject (e.g., on-site combustion, le, to an existing substation? <i>ii.</i> During Operations:	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand on-site renewable, via grid/1	Yes No Yes No Yes No Yes No
 Arte public/private transporta Will the proposed action incl or other alternative fueled ve Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity des Anticipated sources/suppliers other): Will the proposed action requi Hours of operation. Answer all During Construction: Monday - Friday: 	tion service(s) or facility hude access to public treshicles? Hude plans for pedestric commercial or industric mand during operation of electricity for the puicture ire a new, or an upgrace litems which apply.	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action: roject (e.g., on-site combustion, le, to an existing substation? <i>ii.</i> During Operations: Monday - Frida	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand on-site renewable, via grid/1 additional demand	Yes No Yes No Yes No Yes No Yes No Ives No Ives No Ives No Ives No
 Arc public/private transporta i Will the proposed action incl or other alternative fueled ve ii. Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity de: Anticipated sources/suppliers other): Will the proposed action requi Hours of operation. Answer all During Construction: Monday - Friday: Saturday: 	tion service(s) or facility bude access to public treshicles? Flude plans for pedestric commercial or industric mand during operation of electricity for the p ire a new, or an upgrace l items which apply. 0 0	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action:	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand on-site renewable, via grid/I additional demand	Yes No Yes No Yes No Yes No Ves No Ives No Ives No Ives No Ives No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity de: Anticipated sources/suppliers other): Will the proposed action requi Hours of operation. Answer all During Construction: Monday - Friday: Saturday: Sunday: 	tion service(s) or facility tool service(s) or facility tools for public transformed by the plans for pedestricy for the plans for pedestricy for the plans of electricity for the plans of electricity for the plans of a new, or an upgrade litems which apply.	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action:	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand on-site renewable, via grid/I additional demand on-site renewable, via grid/I additional demand 01-site renewable, via grid/I 02-4 hours 24 hours 24 hours 24 hours	Yes No Yes No Yes No
 Are public/private transporta Will the proposed action incl or other alternative fueled ve Will the proposed action inc pedestrian or bicycle routes? Will the proposed action (for c for energy? Yes: Estimate annual electricity de: Anticipated sources/suppliers other): Will the proposed action requires Hours of operation. Answer all During Construction: Monday - Friday: Saturday: Sunday: Holidays: 	tion service(s) or facility tool facility the access to public treshicles? Ended plans for pedestrict commercial or industrict mand during operation of electricity for the part of electricity for the part of electricity for the part of the part o	ties available within ½ mile of t ansportation or accommodations an or bicycle accommodations f al projects only) generate new or of the proposed action:	he proposed site? 5 for use of hybrid, electric or connections to existing • additional demand on-site renewable, via grid/1 additional demand • additional demand • addit	Yes No Yes No

operation, or both?	LI I ES EINO
VAC	
y w. Describe details including sources time of day and duration.	
Provide details including sources, time of day and duration.	
Will the proposed action remove existing natural barriers that could act as a noise barrier or screen?	☐ Yes No
Describe: n/a	
Will the recorded action have outdoor lighting?	□ Yes 2 No
will the proposed action have outdoor righting:	
Describe source(s) location(s) height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
Describe source(s), rotation(s), norbit of initial e(o), and of an initial of the source of the sour	
Will proposed action remove existing natural barriers that could act as a light barrier or screen?	
Describe: n/a	
Deep the proposed action have the potential to produce odors for more than one hour per day?	Yes No
If Ves describe possible sources potential frequency and duration of odor emissions, and proximity to nearest	
occupied structures.	
and the first start of even 1 100 gallone)	Ves No
. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons)	105 110
or chemical products 185 gallons in above ground storage or any amount in underground storage?	
Yes:	
<i>i</i> . Product(s) to be stored <u>n/a</u>	
<i>i.</i> Volume(s) n/a per unit time n/a (e.g., month, year)	
i. Generally, describe the proposed storage facilities.	
i	Yes No
. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., increational	
insecticides) during construction or operation?	
f Yes:	
<i>i</i> . Describe proposed treatment(s):	
r	
a	
a	
a	
a	Yes No
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices?	Yes No
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? . Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid wate (aveluding bazardous materials)?	☐ Yes ☐No ☐ Yes ☑No
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? . Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)?	☐ Yes ☐No ☐ Yes ØNo
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? . Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? f Yes: <i>i</i> Describe any solid waste(s) to be generated during construction or operation of the facility:	☐ Yes ☐No ☐ Yes ☑No
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? <i>ii.</i> Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? f Yes: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>n</i> /a tons per n/a (unit of time)	☐ Yes ☐ No ☐ Yes ☑ No
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? <i>ii.</i> Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? f Yes: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: • Construction: n/a tons per • n/a (unit of time) • Operation : n/a tons per	☐ Yes ☐No ☐ Yes ☑No
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? <i>ii.</i> Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? f Yes: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of time) <i>i.</i> Describe any arroposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waster	☐ Yes ☐No ☐ Yes ☑No e:
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? <i>ii.</i> Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? f Yes: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste <i>Construction: n/a</i>	☐ Yes ☐No ☐ Yes ☑No e:
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? <i>ii.</i> Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? f Yes: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of time) <i>i.</i> Operation:	☐ Yes ☐ No ☐ Yes ☑ No e:
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? <i>ii.</i> Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? f Yes: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: • Construction: n/a tons per • Operation : n/a tons per • Operation : n/a tons per • Operation: n/a tons per • Operation: n/a • Operation: n/a	☐ Yes ☐ No ☐ Yes ☑ No e:
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? <i>ii.</i> Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? f Yes: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: • Operation : n/a tons per <i>n</i> /a (unit of time) <i>ii.</i> Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste • Operation: n/a	☐ Yes ☐No ☐ Yes ☑No e:
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? <i>ii.</i> Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? <i>if</i> Yes: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: • Construction: n/a tons per • n/a tons per n/a (unit of time) <i>ii.</i> Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste • Operation: n/a • Operation:	☐ Yes ☐No ☐ Yes ☑No e:
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? . Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? f Yes: <i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility: • Construction: n/a tons per • Operation : n/a tons per <i>ii.</i> Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste • Operation: n/a <i>iii.</i> Proposed disposal methods/facilities for solid waste generated on-site:	☐ Yes ☐No ☐ Yes ☑No e:
a	☐ Yes ☐No ☐ Yes ☑No e:
a	Yes □No Yes ℤNo

 s. Does the proposed action include construction or mod If Yes: <i>i</i>. Type of management or handling of waste proposed other disposal activities): n/a 	ification of a solid waste i for the site (e.g., recyclin	nanagement facility? g or transfer station, compostir	Yes 🗹 No
<i>ii.</i> Anticipated rate of disposal/processing:			
n/a Tons/month if transfer or other non	combustion /thomas treat	mont or	
n/a Tons/hour if combustion or thermal	troutmont	nent, or	
iii If landfill anticipated site life: n/a	ucaunent		
m. in fairdini, anticipated site inc. wa	years		in shart the rest waters
 t. Will the proposed action at the site involve the comme waste? If Yes: Name(s) of all hazardous wastes or constituents to be n/a 	rcial generation, treatmen	t, storage, or disposal of hazard	lous 🛛 Yes 🗹 No
<i>ii.</i> Generally describe processes or activities involving h	nazardous wastes or const	ituents:	
<i>iii.</i> Specify amount to be handled or generated <u>n/a</u> to <i>iv.</i> Describe any proposals for on-site minimization, rec n/a	ons/month ycling or reuse of hazardo	ous constituents:	an di kasara (di da Angelar da
v. Will any hazardous wastes be disposed at an existing If Yes: provide name and location of facility:	g offsite hazardous waste f	acility?	☐Yes ☐No
If No: describe proposed management of any hazardous n/a	wastes which will not be s	ent to a hazardous waste facilit	y:
	R and the calls believed and we	<u>27 (11) 20 20 20 20 20 20 20 20 20 20 20 20 20 </u>	<u>esol silvatare di e</u>
F Site and Setting of Proposed Action	a an an a sub-second second		25 12 J
 E.1. Land uses on and surrounding the project site a. Existing land uses. i. Check all uses that occur on, adjoining and near the ☑ Urban ☑ Industrial ☑ Commercial ☑ Resid □ Forest □ Agriculture □ Aquatic □ Other ii. If mix of uses, generally describe: Bellevue Hospital is in New York City located at 462 First Avenue office buildings, residential units and schools 	project site. ential (suburban)	ural (non-farm)	encompasses hospitals,
	neered will be the been a	neiten Mission (Taschurge Baren	
b. Land uses and covertypes on the project site.	Patie bostoon date	erricommutad at or adjacetario	familia la barres
Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	Odel Scivor 10	10	
• Forested	000000000000000000000000000000000000000	and the country and a strength and a strength	O STATE
Meadows, grasslands or brushlands (non- agricultural, including abandoned agricultural)	ines, Jeso 0 e control raci	0	0
Agricultural (includes active orchards, field greenhouse etc.)	0	0	0
Surface water features	augum mann Alex H-	ou la cuis (ous to confidentia)	ति स्वयंत्र प्रसार क्रमा हो जात
(lakes, ponds, streams, rivers, etc.)	007.00100V.fontes actor	Capital Constant Cons	OHC shi ong sec H
Wetlands (freshwater or tidal)	Te plicate and	and general work they	
Non vagatatad (have not(1) (11)	0	0	0
Other	0	0	0
Describe: n/A	0	0	0

c. Is the project site presently used by members of the commun	ity for public recreation?	□ Yes INo
<i>i</i> . If Yes: explain: n/a		
d. Are there any facilities serving children, the elderly, people day care centers, or group homes) within 1500 feet of the pro If Yes.	with disabilities (e.g., schools, hospitals, licensed oject site?	✓ Yes No
<i>i.</i> Identify Facilities:		
A NY Harbor Healthcare System, NYU Langone Medical Center, NYU	College of Dentistry, NYU Rory Meyers College of Nursing,	ursing
nited Nations International School, The British International School of T	vew Tork, THA Mens Cherce, Hunter Delievae Concerter	
. Does the project site contain an existing dam?		Yes No
t Yes:		
7. Dimensions of the dam and impoundment.	n/a feet	
Dam length:	n/a feet	
Surface area:	n/a acres	
Volume impounded:	n/a gallons OR acre-feet	
<i>ii.</i> Dam's existing hazard classification: n/a		
iii. Provide date and summarize results of last inspection:		
a		<u>19. D.C.</u>
. Has the project site ever been used as a municipal, commerc or does the project site adjoin property which is now, or was	ial or industrial solid waste management facility, s at one time, used as a solid waste management faci	Lity?
<i>i</i> . Has the facility been formally closed?		□Yes□ No
• If yes, cite sources/documentation: n/a		
<i>ii.</i> Describe the location of the project site relative to the bound	ndaries of the solid waste management facility:	
/a		
un The state of th	A worte potivities:	
<i>iii.</i> Describe any development constraints due to the prior soli	id waste activities.	
	and of at the site, or does the project site adjoin	Ves
g. Have hazardous wastes been generated, treated and/or disport property which is now or was at one time used to commerci ff Ves.	ially treat, store and/or dispose of hazardous waste?	
<i>i</i> Describe waste(s) handled and waste management activitie	s, including approximate time when activities occur	red:
a	, 0.11	
h. Potential contamination history. Has there been a reported remedial actions been conducted at or adjacent to the propo	spill at the proposed project site, or have any osed site?	Yes 🖌 No
<i>i</i> . Is any portion of the site listed on the NYSDEC Spills Inc.	idents database or Environmental Site	☐Yes ☐No
Remediation database? Check all that apply.	Provide DEC ID number(s). n/a	
\square 1 es – Spins incluents database \square Yes – Environmental Site Remediation database	Provide DEC ID number(s):	
Neither database		
<i>ii</i> If site has been subject of RCRA corrective activities. desc	ribe control measures:	
/a		
<i>iii.</i> Is the project within 2000 feet of any site in the NYSDEC	C Environmental Site Remediation database?	V Yes No
If yes, provide DEC ID infinite((s) , $\frac{2}{2}$), $\frac{1}{2}$, $$	te(s).	
<i>iv.</i> If yes to (1), (11) or (111) above, describe current status of st	10(3).	
ı/a		,

The institutional control	limiting property uses?	ng Street and State	Yes No
Is the project site subject to an institutional control	initial property		
• If yes, DEC site in initiational control (e.g	deed restriction or easement): n/a		
 Describe the type of institutional condition (e.g. Describe any use limitations: n/a 	.,,		
Describe any engineering controls: n/a			
• Will the project affect the institutional or eng	gineering controls in place?		
• Fynlain:			
• Daplani,			<u></u>
		And the second second	<u></u>
		provide an al dates fo	
2. Natural Resources On of Near Project Site	site?around 30) feet	l te mail
what is the average depth to open out of a project site?		The second se	Yes No
Are there bedrock outcroppings on the project sile?	trock outcronnings?	n/a %	
Yes, what proportion of the site is comprised of occ			
Predominant soil type(s) present on project site:	Gravelly Sandy Loam	60 %	
	Sandy Loam	20 %	
	Loam		
What is the average depth to the water table on the	project site? Average:25 fe	et	
Drainage status of project site soils:	ed:100 % of site		
Moderately	Well Drained:% of site		
Depart Poorly Drai	ined% of site		
t more proportion of proposed action site wi	th slopes: 🔽 0-10%:	100 % of site	
Approximate proportion of proposed denois site	10-15%:	% of site	
	\Box 15% or greater:	% of site	a second and the second
1 is Sentence on the proj	ect site?		☐ Yes ✓ No
Are there any unique geologic features on the proj	eet she:	in all was so all she take	
f Yes, describe: n/a			
	2018 Store 2010 388 32	AR BUT STONIES I. STOLE	T DYNEROUTO
Surface water features.	i l'a l'a ding at	rooms rivers	TYes No.
i. Does any portion of the project site contain wetla	nds or other waterbodies (including st	Icallis, 110015,	from saturations
ponds or lakes)?	anaiaat aita?		✓ Yes No
. Do any wetlands or other waterbodies adjoin the	project site?		
Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.1.	1:	v anv federal	Ves No
i. Are any of the wetlands or waterbodies within o	r adjoining the project site regulated of	y any rederuit,	
state or local agency?	adv on the project site provide the fo	llowing information:	
v. For each identified regulated wetland and water	body on the project site, provide the re	Classification	that the state of the
• Streams: Name East Hiver		Classification n/a	AND A HOUR
Lakes or Ponds: Name 1/2		Approximate Size n/a	
 Wetland No. (if regulated by DEC) n/a 	er fundenserserationer	A second and a second s	
Are any of the above water bodies listed in the m	ost recent compilation of NYS water	quality-impaired	∐Yes ∎No
waterhodies?			
f ves name of impaired water body/bodies and bas	is for listing as impaired:		and a second
	and the second	And the second	<u>La Mara a contra Cara</u>
. Is the project site in a designated Floodway?		shruled interest	Yes V No
. Is the project site in the 100-year Floodplain?	the service and subsequences and the service of the	anderican setz foeton i con h	✓ Yes □No
. Is the project site in the 500-year Floodplain?	and the second	State Contract State	✓ Yes No
L d in the located ever or immediately ad	joining a primary, principal or sole so	ource aquifer?	☐Yes 2 Nc
. Is the project site localed over, or infine dately ad	Journe, a human , hanne Land and		
i Nome of equifer n/a			
I. Name of aquifer: n/a			
			And a second state of the second state of the

D

 Does the project site contain a designated significant natural community? □Yes: /li>	Sciurus carolinensis		
Loes the project site contain a designated significant natural community?			
<i>i</i> . Describe the habitat/community (composition, function, and basis for designation): <i>ii</i> . Succes(s) of description or evaluation: <i>iii</i> . Extent of community/habitat: <i>iii</i> . Currently: <i>iii</i> . Currently: <i>iii</i> . Contrently: <i>iii</i> . Contrently: <i>iiii</i> . Contrently: <i>iiii</i> . Contrently: <i>iiii</i> . Contrently: <i>iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii</i>	n. Does the project site contain a designated significant natural comm If Yes:	unity?	Yes
<i>ii</i> . Source(s) of description or evaluation:	<i>i</i> . Describe the habitat/community (composition, function, and basis	for designation):	
<i>iii.</i> Extent of community/habitat: • Currently: • Courrently: • Gain or loss (indicate + or -): • acres • Gain or loss (indicate + or -): • acres • Gain or loss (indicate + or -): • acres • Coarnently: • A species and listing (endangered or threatened): • Coest he project site contain any species of plant or animal that is listed by NYS as rare, or as a species of • Yes: • Species and listing: •	<i>ii.</i> Source(s) of description or evaluation:		
Currently: acres Gain or loss (indicate + or -): acres Gain or loss (indicate + or -): acres Gain or loss (indicate + or -): acres Coses project site contain any species of plant or animal that is listed by the federal government or NYS as Yes/ING rendangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? Yes: Species and listing (endangered or threatened): Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of Yes/ING Species and listing: Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of Yes/ING Yes: Species and listing: Species and lis	iii. Extent of community/habitat:		
Following completion of project as proposed: acres acres Gain or loss (indicate + or -): acres a	• Currently:	20100	
Gam or loss (indicate + or -): acres	• Following completion of project as proposed:	acres	
Does project site contain any species of plant or animal that is listed by the federal government or NYS as Yes ZNG endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? A: Species and listing (endangered or threatened):	• Gain or loss (indicate + or -):	acres	
endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? i. Species and listing (endangered or threatened): Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of □Yes No special concern? Yes: Species and listing: Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? Yes No Species and listing: Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? Yes No Special concern? Special concern? Special concern? Special concern? Special or any portion of how the proposed action may affect that use: Species and listing: Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Yes No Agriculture and Markets Law, Article 25-AA, Section 303 and 304? (cs, provide county plus district name/number; n/a Does the project site contain all or part of, or is it substantially contiguous to, a registered National Yes No Source(s) of soil rating(s): n/a Does the project site located in or does it adjoin a state listed Critical Environmental Area? Yes No CAR Agriculture and market: He project site located in or does it adjoin a state listed Critical Environmental Area? Yes No CAR Agriculture and Tidal Wetlands Dasis for designation: Protect the shoreline habitat and ensure its protection from filling and diredmin	Does project site contain any species of plant or animal that is listed	by the federal government or NVS or	
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 e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissi Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places: i. Nature of historic/archaeological resource: i. Nature of historic/archaeological resource: i. Name: Buildings C & D and Administration are eligible property 	Yes No ioner of the NYS laces?
<i>iii.</i> Brief description of attributes on which listing is based: 1938; Italian Renaissance Revival	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	✓ Yes □No
 g. Have additional archaeological or historic site(s) or resources been identified on the project site? If Yes: i. Describe possible resource(s): n/a ii. Basis for identification: n/a 	☐Yes 2 No
 h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? If Yes: i. Identify resource: n/a 	☐ Yes 2 No
<i>ii.</i> Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or etc.): n/a	r scenic byway,
<i>iii</i> . Distance between project and resource:n/a miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	Yes No
If Yes:	
i. Identify the name of the river and its designation: n/a	parally a parally a
<i>ii.</i> Is the activity consistent with development restrictions contained in 6NYCKR Part 666?	<u>Yes</u> No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Patrick Benn

9/27/22 Date

Signature

H	TIC	
TX		
Æ		

Title	Chief	Engineer

PRINT FORM



Gamin-USGS, Internap, INCREMENT, P., NR Can, Esri Japan, METI, Esri Ghina (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

clon@penStreetMap contributors, and the GIS User Community

B.i.i [Coastal or Waterfront Area]	Yes
B.i.ii [Local Waterfront Revitalization Area]	Yes
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	231119, V00542, V00536, 231112, V00430, V00543, C231014
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	Yes
E.2.I. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No

E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Eligible property:C & D Building (1938; Italian Renaissance Rev.), Eligible property:Administration Building (aka Building E or Main Bu, Eligible property:Psychiatric Building at Bellevue Hospital, Public Baths, R & S Building
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No



462 1 AVENUE, 10016

Manhattan (Borough 1) | Block 962 | Lot 100

Zoning District: R8 C2-5

INTERSECTING MAP LAYERS :	Owner Type	City
Coastal Zone	Owner	NYC HEALTH AND HOSPITALS CORPORATION
Flood Zone Effective Flood Insurance Rate Maps 2007	Land Use	Public Facilities & Institutions
Flood Zone Preliminary Flood Insurance Rate Maps 2015	Lot Area	753,175 sq ft
	Lot Frontage	1287.6 ft
ZONING DETAILS:	Lot Depth	779.58 ft
<u>Digital Tax Map</u>	Year Built	1910
Zoning Map: 8d (PDF) Historical Zoning Maps (PDF)	Building Class	Hospitals and Health - Hospitals, Sanitariums, Mental Institutions (${\rm I1}$)
	Number of Buildings	6
	Number of Floors	17
	Gross Floor Area	2,124,441 sq ft
	Total # of Units	1
	Building Info	BISWEB
	Property Records	View ACRIS
	Housing Info	View HPD's Building, Registration & Violation Records
	Community District	Manhattan Community District 6
	City Council District	Council District 4
	School District	02
	Police Precinct	13
	Fire Company	E016
	Sanitation Borough	1
	Sanitation District	06
	Sanitation Subsection	1B

Tax Lots Zoning Districts Commercial Districts Manufacturing Districts Residence Districts Parks Battery Park City Commercial Overlays C1-1 through C1-5 C2-1 through C2-5 **Basemaps**

Zoning and Land Use

Subways	Δ
Building Footprints	▲

TAX LOT | BBL 1009620100

A

FOR INTERNAL USE ONLY	WRP No.
Date Received:	DOS No.

NEW YORK CITY WATERFRONT REVITALIZATION PROGRAM Consistency Assessment Form

Proposed actions that are subject to CEQR, ULURP or other local, state or federal discretionary review procedures, and that are within New York City's Coastal Zone, must be reviewed and assessed for their consistency with the <u>New York City Waterfront Revitalization Program</u> (WRP) which has been approved as part of the State's Coastal Management Program.

This form is intended to assist an applicant in certifying that the proposed activity is consistent with the WRP. It should be completed when the local, state, or federal application is prepared. The completed form and accompanying information will be used by the New York State Department of State, the New York City Department of City Planning, or other city or state agencies in their review of the applicant's certification of consistency.

A. APPLICANT INFORMATION

Name of Applicant: <u>NYC-HH - Bellevue Hospital</u>

Name of Applicant Representative: Patrick Benn

Address: 462 First Ave. New York, NY 10016

Telephone: (212) 562-6295 Email: bennp4@nychhc.org

Project site owner (if different than above): <u>The New York City Health & Hospitals Corporation</u>

B. PROPOSED ACTIVITY

If more space is needed, include as an attachment.

I. Brief description of activity

The purpose of this application is to renew the current state facility air permit for NYC-HHC Bellevue Hospital. The hospital is in the process of installing two (2) new natural gas fired co-generation engines - Caterpillar model G3516H, each with 1982 kW rating. Also in order to meet NYSDEC's part 222 requirements, the following generators are participating in Demand Response (DR) Program:

- Four (4) Caterpillar C27 generators on 13th floor

- One (1) Caterpillar 3512C

- One (1) Cummins 3100 located in basement.

Rest of the generators (three) are for emergency purpose only

2. Purpose of activity

To generate power for the hospital

NYC WRP CONSISTENCY ASSESSMENT FORM - 2016

C. PROJECT LOCATION

	Borou	gh: <u>Manhattan</u> Tax Block/Lo	t(s): <u>96</u>	2/100		
	Street	Address: 462 1 Avenue, New York	, NY 10	016		
	Name	of water body (if located on the wate	rfront):	East River		
D.	REQ	JIRED ACTIONS OR APPRO	VALS			
Che	ck all th	at aþþly.			2	
Cit	y Actio	ons/Approvals/Funding				
		Ianning Commission Image: Yes City Map Amendment Zoning Map Amendment Zoning Text Amendment Site Selection – Public Facility Housing Plan & Project Special Permit (if appropriate, specify type: Image: Model of Model of Magel		No Zoning Certification Zoning Authorizations Acquisition – Real Property Disposition – Real Property Other, explain:	n Date:	Concession UDAAP Revocable Consent Franchise
	Board	of Standards and Appeals Tes Variance (use) Variance (bulk) Special Permit (if appropriate, specify type: Mod	J N	No	on Date:	
	Other	City Approvals Legislation Rulemaking Construction of Public Facilities 384 (b) (4) Approval Other, explain:		Funding for Construction, specify Policy or Plan, specify: Funding of Program, specify: Permits, specify: <u>NYCDEP, NYCDOB</u>		
Sta	te Acti	ons/Approvals/Funding				
		State permit or license, specify Agen Funding for Construction, specify: <u>N</u> Funding of a Program, specify: <u>Construction</u> Other, explain: <u>Construction</u>	CY: NYSD YPA	EC Permit type and number	:	
Fed	eral A	ctions/Approvals/Funding				
		Federal permit or license, specify Age Funding for Construction, specify: Funding of a Program, specify: Other, explain:	ency:	Permit type and numbe	r:	
ls th	is being	reviewed in conjunction with a <u>loint</u> .	Applicat	ion for Permits? Tes	V] No
NYC	WRP CC	DNSISTENCY ASSESSMENT FORM - 2016	-	2	* *	

E. LOCATION QUESTIONS

Ι.	Does the project require a waterfront site?	Yes	🖌 No
2.	Would the action result in a physical alteration to a waterfront site, including land along the shoreline, land under water or coastal waters?	Yes	🖌 No
3.	Is the project located on publicly owned land or receiving public assistance?	🗌 Yes	🔽 No
4.	Is the project located within a FEMA 1% annual chance floodplain? (6.2)	🗸 Yes	🗌 No
5.	Is the project located within a FEMA 0.2% annual chance floodplain? (6.2)	🖌 Yes	🗌 No
6.	Is the project located adjacent to or within a special area designation? See <u>Maps – Part III</u> of the NYC WRP. If so, check appropriate boxes below and evaluate policies noted in parentheses as part of	🗌 Yes	🗸 No

WKP Policy Assessment (Section F).	
Significant Maritime and Industrial Area (SMIA) (2.1)	

Special Natural Waterfront Area (SNWA) (4.1)

Priority Maritime Activity Zone (PMAZ) (3.5)

Recognized Ecological Complex (REC) (4.4)

West Shore Ecologically Sensitive Maritime and Industrial Area (ESMIA) (2.2, 4.2)

F. WRP POLICY ASSESSMENT

Review the project or action for consistency with the WRP policies. For each policy, check Promote, Hinder or Not Applicable (N/A). For more information about consistency review process and determination, see **Part I** of the <u>NYC Waterfront Revitalization Program</u>. When assessing each policy, review the full policy language, including all sub-policies, contained within **Part II** of the WRP. The relevance of each applicable policy may vary depending upon the project type and where it is located (i.e. if it is located within one of the special area designations).

For those policies checked Promote or Hinder, provide a written statement on a separate page that assesses the effects of the proposed activity on the relevant policies or standards. If the project or action promotes a policy, explain how the action would be consistent with the goals of the policy. If it hinders a policy, consideration should be given toward any practical means of altering or modifying the project to eliminate the hindrance. Policies that would be advanced by the project should be balanced against those that would be hindered by the project. If reasonable modifications to eliminate the hindrance are not possible, consideration should be given as to whether the hindrance is of such a degree as to be substantial, and if so, those adverse effects should be mitigated to the extent practicable.

	•	Promote	Hinder	N/A
1	Support and facilitate commercial and residential redevelopment in areas well-suited to such development.			
1.1	Encourage commercial and residential redevelopment in appropriate Coastal Zone areas.			
1.2	Encourage non-industrial development with uses and design features that enliven the waterfront and attract the public.			7
1.3	Encourage redevelopment in the Coastal Zone where public facilities and infrastructure are adequate or will be developed.			
1.4	In areas adjacent to SMIAs, ensure new residential development maximizes compatibility with existing adjacent maritime and industrial uses.			V
1.5	Integrate consideration of climate change and sea level rise into the planning and design of waterfront residential and commercial development, pursuant to WRP Policy 6.2.			\checkmark

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2	Support water-dependent and industrial uses in New York City coastal areas that are well-suited to their continued operation.		
2.1	Promote water-dependent and industrial uses in Significant Maritime and Industrial Areas.		V
2.2	Encourage a compatible relationship between working waterfront uses, upland development and natural resources within the Ecologically Sensitive Maritime and Industrial Area.		\checkmark
2.3	Encourage working waterfront uses at appropriate sites outside the Significant Maritime and Industrial Areas or Ecologically Sensitive Maritime Industrial Area.		\checkmark
2.4	Provide infrastructure improvements necessary to support working waterfront uses.		V
2.5	Incorporate consideration of climate change and sea level rise into the planning and design of waterfront industrial development and infrastructure, pursuant to WRP Policy 6.2.		
3	Promote use of New York City's waterways for commercial and recreational boating and water-dependent transportation.		
3.1.	Support and encourage in-water recreational activities in suitable locations.		V
3.2	Support and encourage recreational, educational and commercial boating in New York City's maritime centers.		V
3.3	Minimize conflicts between recreational boating and commercial ship operations.		V
3.4	Minimize impact of commercial and recreational boating activities on the aquatic environment and surrounding land and water uses.		V
3.5	In Priority Marine Activity Zones, support the ongoing maintenance of maritime infrastructure for water-dependent uses.		V
4	Protect and restore the quality and function of ecological systems within the New York City coastal area.		
4.1	Protect and restore the ecological quality and component habitats and resources within the Special Natural Waterfront Areas.		V
4.2	Protect and restore the ecological quality and component habitats and resources within the Ecologically Sensitive Maritime and Industrial Area.		Z
4.3	Protect designated Significant Coastal Fish and Wildlife Habitats.		V
4.4	Identify, remediate and restore ecological functions within Recognized Ecological Complexes.		V
4.5	Protect and restore tidal and freshwater wetlands.		V
4.6	In addition to wetlands, seek opportunities to create a mosaic of habitats with high ecological value and function that provide environmental and societal benefits. Restoration should strive to incorporate multiple habitat characteristics to achieve the greatest ecological benefit at a single location.		7
4.7	Protect vulnerable plant, fish and wildlife species, and rare ecological communities. Design and develop land and water uses to maximize their integration or compatibility with the identified ecological community.		V
4.8	Maintain and protect living aquatic resources.		V

NYC WRP CONSISTENCY ASSESSMENT FORM - 2016

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1292 012 00		Promote	Hinder	N/A
5	Protect and improve water quality in the New York City coastal area.			
5.1	Manage direct or indirect discharges to waterbodies.			V
5.2	Protect the quality of New York City's waters by managing activities that generate nonpoint source pollution.			Z
5.3	Protect water quality when excavating or placing fill in navigable waters and in or near marshes, estuaries, tidal marshes, and wetlands.			
5.4	Protect the quality and quantity of groundwater, streams, and the sources of water for wetlands.			\checkmark
5.5	Protect and improve water quality through cost-effective grey-infrastructure and in-water ecological strategies.			
6	Minimize loss of life, structures, infrastructure, and natural resources caused by flooding and erosion, and increase resilience to future conditions created by climate change.			2
6. I	Minimize losses from flooding and erosion by employing non-structural and structural management measures appropriate to the site, the use of the property to be protected, and the surrounding area.			Z
6.2	Integrate consideration of the latest New York City projections of climate change and sea level rise (as published in New York City Panel on Climate Change 2015 Report, Chapter 2: Sea Level Rise and Coastal Storms) into the planning and design of projects in the city's Coastal Zone.			V
6.3	Direct public funding for flood prevention or erosion control measures to those locations where the investment will yield significant public benefit.			Z
6.4	Protect and preserve non-renewable sources of sand for beach nourishment.			
7	Minimize environmental degradation and negative impacts on public health from solid waste, toxic pollutants, hazardous materials, and industrial materials that may pose risks to the environment and public health and safety.			
7.1	Manage solid waste material, hazardous wastes, toxic pollutants, substances hazardous to the environment, and the unenclosed storage of industrial materials to protect public health, control pollution and prevent degradation of coastal ecosystems.			
7.2	Prevent and remediate discharge of petroleum products.			
7.3	Transport solid waste and hazardous materials and site solid and hazardous waste facilities in a manner that minimizes potential degradation of coastal resources.			
8	Provide public access to, from, and along New York City's coastal waters.			
8.1	Preserve, protect, maintain, and enhance physical, visual and recreational access to the waterfront.			
8.2	Incorporate public access into new public and private development where compatible with proposed land use and coastal location.			
8.3	Provide visual access to the waterfront where physically practical.			\checkmark
8.4	Preserve and develop waterfront open space and recreation on publicly owned land at suitable locations.		· 🗌	

NYC WRP CONSISTENCY ASSESSMENT FORM - 2016

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		Promote	Hinder	N/A
8.5	Preserve the public interest in and use of lands and waters held in public trust by the State and City.			\checkmark
8.6	Design waterfront public spaces to encourage the waterfront's identity and encourage stewardship.			
9	Protect scenic resources that contribute to the visual quality of the New York City coastal area.			
9.1	Protect and improve visual quality associated with New York City's urban context and the historic and working waterfront.			
9.2	Protect and enhance scenic values associated with natural resources.			
10	Protect, preserve, and enhance resources significant to the historical, archaeological, architectural, and cultural legacy of the New York City coastal area.			
10.1	Retain and preserve historic resources, and enhance resources significant to the coastal culture of New York City.			
10.2	Protect and preserve archaeological resources and artifacts.			

G. CERTIFICATION

The applicant or agent must certify that the proposed activity is consistent with New York City's approved Local Waterfront Revitalization Program, pursuant to New York State's Coastal Management Program. If this certification cannot be made, the proposed activity shall not be undertaken. If this certification can be made, complete this Section.

"The proposed activity complies with New York State's approved Coastal Management Program as expressed in New York City's approved Local Waterfront Revitalization Program, pursuant to New York State's Coastal Management Program, and will be conducted in a manner consistent with such program."

Applicant/Agent's Name:

Address: 462 First Ave. New York, NY 10016

Telephone: ___

Applicant/Agent's Signature:

Email: bennp4@nychhc.org

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Date: _5/20/22

NYC WRP CONSISTENCY ASSESSMENT FORM - 2016

Submission Requirements

For all actions requiring City Planning Commission approval, materials should be submitted to the Department of City Planning.

For local actions not requiring City Planning Commission review, the applicant or agent shall submit materials to the Lead Agency responsible for environmental review. A copy should also be sent to the Department of City Planning.

For State actions or funding, the Lead Agency responsible for environmental review should transmit its WRP consistency assessment to the Department of City Planning.

For Federal direct actions, funding, or permits applications, including Joint Applicants for Permits, the applicant or agent shall also submit a copy of this completed form along with his/her application to the <u>NYS Department of State</u> <u>Office of Planning and Development</u> and other relevant state and federal agencies. A copy of the application should be provided to the NYC Department of City Planning.

The Department of City Planning is also available for consultation and advisement regarding WRP consistency procedural matters.

New York City Department of City Planning	New York State Department of State
Waterfront and Open Space Division	Office of Planning and Development
120 Broadway, 31 st Floor	Suite 1010
New York, New York 10271	One Commerce Place, 99 Washington Avenue
212-720-3696	Albany, New York 12231-0001
wrp@planning.nyc.gov	518-474-6000
www.nyc.gov/wrp	www.dos.ny.gov/opd/programs/consistency

Applicant Checklist

Copy of original signed NYC Consistency Assessment Form

Attachment with consistency assessment statements for all relevant policies

For Joint Applications for Permits, one (1) copy of the complete application package

Environmental Review documents

Drawings (plans, sections, elevations), surveys, photographs, maps, or other information or materials which would support the certification of consistency and are not included in other documents submitted. All drawings should be clearly labeled and at a scale that is legible.

Policy 6.2 Flood Elevation worksheet, if applicable. For guidance on applicability, refer to the WRP Policy 6.2 Guidance document available at www.nyc.gov/wrp

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NYC WRP CONSISTENCY ASSESSMENT FORM - 2016



Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO Governor ERIK KULLESEID Commissioner

February 25, 2020

Sarah Salem Associate Cultural Resources Specialist New York Power Authority 123 Main Street-5E White Plains, NY 10601

Re: NYPA

Bellevue Hospital Combined Heat and Power Gas Engines 462 1st Ave, New York, NY 10016 20PR00628

Dear Ms. Salem:

Thank you for requesting the comments of the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the submitted materials in accordance with the New York State Historic Preservation Act of 1980 (section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6NYCRR Part 617).

We note that the Administration Building and Buildings C and D of the Bellevue Hospital complex are eligible for listing in the State and National Registers of Historic Places. We have reviewed the project description and supporting documentation that was provided to our office on January 29th, 2020. Based upon our review, it is OPRHP's opinion that the proposed work will have No Adverse Impact on historic resources.

If additional information or correspondence is required regarding this project it should be provided via our Cultural Resource Information System (CRIS) at <u>https://cris.parks.ny.gov/</u>. Once on the CRIS site, you can log in as a guest and choose "submit" at the very top menu. Next choose "submit new information for an existing project" at the very bottom of the page. You will need this project number and your e-mail address. If you have any questions, I can be reached at (518) 268-2182.

Sincerely,

Bare

Olivia Brazee Historic Site Restoration Coordinator olivia.brazee@parks.ny.gov

via e-mail only

cc: Robert Panepinto, NYPA
BELLEVUE HOSPITAL 4MW CHP PLANT

462 1ST AVENUE, NEW YORK, NY 10016



SITE PLAN



CLCPA Analysis

May 5th, 2023

HEALTH+ HOSPITALS Bellevue

NYSDEC Region 2 Division of Environmental Permits 1 Hunter's Point Plaza 47-40 21st Street Long Island City, New York 11101-5407 **Attn: Ms. Denise Grattan**

Re: • NYC HHC Bellevue Hospital- 462 First Ave, New York, NY 10016

DEC ID: 2-6206-00032/00004

Climate Leadership and Community Protection Act (CLCPA) Emissions Reduction Letter

Dear Ms. Grattan,

In response to the DEC's request for information regarding future reductions of GHG levels, this letter outlines the impact on emissions by adding two (2) new Caterpillar engines as part of the ongoing Combined Heat & Power (CHP) project at this site along with the Bellevue Hospital's efforts to reduce its overall GHG emissions.

Caterpillar Engines

The GHG emissions from the two (2) reciprocating engines used in the CHP system are calculated to be 35,857 tons/yr CO2e. The total Hazardous Air Pollutant emissions these engines generate will be 4.88 tons/year. Calculations supporting the emissions from this project are attached to this letter. These units are a new addition to the emission sources present at the facility. They have the following exhaust gas emission rates based on the manufacturer's guarantee:

- NO_x 1.0 g/bhp-hr.
- CO < 2 g/bhp-hr.
- VOC 0.4 bhp/hr.

To further reduce the emissions being added by the CHP engines at the site, we included in our design the installation of a Selective Catalytic Reduction (SCR) and Oxidation Catalyst (OXICAT) urea system.

While annual Hazardous Air Pollutant emissions do increase, the engines are regulated by EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) standards and the current emissions are consistent with the Statewide GHG emissions limits. Regarding Hazardous Air Pollutants, these new engines are required to meet EPA NESHAP standards and have an EPA Certificate of Conformity. Furthermore, the Hospital is preparing an Environmental Justice Plan, in which members of the affected community will be able to provide input on this project.

CHP Project Benefits

<u>As per the EPA</u>, on-site heating plants are 75-85 percent efficient and off-site power generating power plants have an average of 36 percent total system efficiency. Overall, separate heat and grid power is 50-55 percent fuel efficient. By recovering and using heat from on-site electricity production, reciprocating-type CHP systems typically achieve total system efficiencies of 75 to 80 percent. The specific <u>CHP system</u> being installed at Bellevue Hospital, will achieve total system efficiency more than that range, closer to 86 percent as per the manufacturer's cut sheet.

Annually, the CHP system at Bellevue Hospital is anticipated to consume 2,926,460 therms of natural gas while generating 32.5 million kwh of electricity and producing ~90,000 MMBTU of thermal energy equivalent to 74,427 mlbs of steam. This energy generation represents approximately 50% of Bellevue's annual electricity consumption and 30% of steam use. Since the CHP system would be 25-30 percent more efficient than obtaining separate utilities from CONED's grid electric and district steam systems, annual GHG emissions reduction is anticipated to be **3,438 metric tons of CO2e**. Additionally, the <u>14th street CONED power plant</u>, which is only twelve blocks from the Bellevue Hospital, where CONED produces some of its electricity and steam being supplied to midtown buildings, should anticipate a reduction in its GHG emissions resulting from the hospital's reduced energy needs.

In addition to reducing costs and meeting their sustainability and emissions reduction goals, CHP will serve as a reliable and redundant energy source, making them more resilient during grid outages or natural disasters.

Energy Efficiency Projects

As part of complying with Local Law 97, several energy efficiency projects were recently implemented at the Bellevue Hospital. They include:

- Replacement and retrofit of over 30,000 fluorescent fixtures with LED fixtures. This has reduced
 1,006 metric tons CO2e annually.
- Installation of an air-cooled chiller for Operating Rooms so that the Large Chiller Plant and Cooling Towers can be shut down in the winter, which resulted in an annual reduction of 377 metric tons CO2e.

Bellevue Hospital is also planning several other energy projects that are underway or in the planning phase, which will be advanced to design and then construction within the next few years. Some of these projects are:

- Replace, inefficient, outdated, deteriorated cooling towers, which include more efficient motors with VFDs. This project is underway and is expected to reduce 43.5 metric tons of CO2e annually.
- Update and replace Bellevue's obsolete Building Automation System (BAS) to control its HVAC equipment more efficiently and effectively. This project is expected to be implemented in the next 2-3 years and is estimated to reduce 1,372 metric tons of CO2e annually.
- Optimize chiller plant controls. This project is underway and is estimated to reduce **96.9 metric** tons of **CO2e annually**

 Conduct hydraulic balancing of the secondary chilled water distribution system to optimize flow requirements. The project will be implemented in the next 2-3 years and is estimated to reduce 113 metric tons CO2e annually.

In conclusion, Bellevue Hospital is actively working to offset the emissions expected by the installation of the new CHP system in the Medical City district. However, despite the on-site emission increase, the CHP system will be reducing overall emissions at the source where electricity and steam are being generated to serve NYC buildings.

Patrick Benn Director of Engineering NYC Health + Hospitals/ Bellevue

EXHIBIT 1 NYC HHC - BELLEVUE HOSPITAL 462 FIRST AVE, NEW YORK, NY 10016

		Location	Maximum Heat				n Hourly	Actua	I Annual	Maxim	um Annual
#	Manufacturor/ Model		Input	Input Fuel Type		Capacity		Consumption		(Potential to Emit) Capacity	
#			Burner (Lower)			Oil	Natural Gas	Oil	Natural Gas	Oil	Natural Gas
			(million BTU/hr)	Primary	Secondary	(GPH)	(CFH)	(GPY)	(CFY)	(GPY)	(CFY)
1	Caterpillar / G3516H	Main Building	21.80	Natural Gas	None	0.00	21374.51	0	170,996,078	0	187,240,706
2	Caterpillar / G3516H	Main Building	21.80	Natural Gas	None	0.00	21374.51	0	170,996,078	0	187,240,706
2 COGEN	ENGINES	TOTAL	43.60			0	42,749	0	341,992,157	0	374,481,412

Section 1: Maximum annual (actual & potential) Fuel consumption by 2 New Cogen Units

1. Per information obtained from the facility

2. Hours of operation are not limited by permit conditions

3. Maximum Annual Actual usage = 365 days per year x 24 hours per day x 50% load

4. Maximum Annual (Potential to Emit) Capacity of Oil = [(Maximum Hourly Capacity) in gallons per hour] x 8760 hours per year

5. Maximum Annual (Potential to Emit) Capacity of Gas = [(Maximum Hourly Capacity) in cubic foot per hour] x 8760 hours per year

Section 2: Maximum annual (actual & potential) Fuel consumption by Six (6) Demand Response Generators

						Maximum Heat	Fuel	Maximum Hourly	Actual Annual	Maximum Annual
Number	Equipment	Year Manufactured	Serial Number	Location	Rating	Input ^{\2}	Туре	Capacity	Usage ^{\3}	(Potential to Emit)
					k)0/					Capacity ^{\4}
					κνν	(million BTU/hr)	Primary	(GPH)	(GPY)	(GPY)
1	Cat C27	2008	AFN03262	13th Floor/Main Building	750	7.50	Diesel	53.19	5319	465957
2	Cat C27	2008	AFN03263	13th Floor/Main Building	750	7.50	Diesel	53.19	5319	465957
1	Cat C27	2008	AFN03264	13th Floor/Main Building	750	7.50	Diesel	53.19	5319	465957
2	Cat C27	2008	AFN03265	13th Floor/Main Building	750	7.50	Diesel	53.19	5319	465957
1	Caterpillar 3512C	2008	G4W00628	Basement	1500	15.00	Diesel	106.38	10638	931915
2	Cummins 3100	2006		Basmenet	900	9.00	Diesel	63.83	6383	559149
6 PLM/CD	PLM/CDRP GENERATORS			Total	5400	54	0	382.9787234	38297.87234	3354893.617
-								Total Nox TPY	8.4	

\1 Rating in KW provided by the facility, the equivalent KVA was calculated (1 KW = 1.25 KVA, 1 KW = 1.34 HP)

\2 The Maximum Heat Input for Diesel = (Maximum Hourly Capacity in gallons per hour) x 137,000 Btu/gallon/1000000

\3 Actual Annual Usage calculated on worst case scenario bases - 500 hours, as per 6 NYCRR 200.1(cq)

\4 Maximum Annual (Potential to Emit) Capacity = Maximum Hourly Capacity x Maximum Operating Hours per Year

EXHIBIT 1 (Contd')

Section 3: Maximum annual (actual & potential) fuel consumption by Three Generators - For Emergency Use Only (Exempt Sources)

					Rating ¹¹	Maximum Heat	Fuel	Maximum Hourly	Actual Annual	Maximum Annual]
Number	Equipment	Year Manufactured	Serial Number	Location	5	Input ^{\2}	Туре	Capacity	Usage ^{\3}	Emit)	
					k\\/					Capacity ^{\4}	1
					KVV	(million BTU/hr)	Primary	(GPH)	(GPY)	(GPY)	
4	Rudox RM900S/Engine:								2212	1	
1	Mitsubishi S12N	1993	11026	13th Floor/Main Building	600	6.00	Diesel	42.55	2213	372,766	
2	Cat D399	1996	35B262	Ground	600	6.00	Diesel	42.55	2213	372,766	
3	Cat D399	1996	35B263	Ground	600	6.00	Diesel	42.55	2213	372,766	13800
3 EMERGEN	ICY GENERATORS		Total	0	1800.00	18.00	0	127.66	6638	1,118,298	

\1 Rating in KW provided by the facility, the equivalent KVA was calculated (1 KW = 1.25 KVA, 1 KW = 1.34 HP)

\2 The Maximum Heat Input for these engines are based on last stack test results - 11/10/2017

\3 Actual Annual Usage calculated on estimated based on = 2 x actual fuel usage per year

\4 Maximum Annual (Potential to Emit) Capacity = Maximum Hourly Capacity x Maximum Operating Hours per Year

\4 Maximum Annual (Potential to Emit) Capacity = Maximum Hourly Capacity x Maximum Operating Hours per Year

A generator may be classified as "emergency" if used for back-up power generation only, and operated at most up to 500 hours per year - per U.S. EPA definition

Heating Value of Oil (Btu/gal): 145000 Heating Value of Natural Gas (Btu/cu. ft.):

1026

138000

Heating Value of Diesel (Btu/gal):

Heating Value of Diesel (Btu/gal):



EXHIBIT 2 - 1a **NYC HHC - BELLEVUE HOSPITAL** 462 FIRST AVE, NEW YORK, NY 10016

Baseline - DR GENERATORS

ESTIMATION OF GHG EMISSIONS FROM SIX (6) DEMAND RESPONSE GENERATORS

CLCPA 7.2 Criteria Pollutants	Upstream Emission Factor ¹		Actual Emissions	Potential Emissions	An	nual
Pollutants GHG Emissions	Diesel	Diesel 54	Diesel 38,298 5,400	Diesel 3,354,894 473,040	Emiss From Nord (TONS P	ion Rate berg Engines PER YEAR)
	lb/mmbtu	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	32.18	1737.98	173,797.62	15,224,671.43	86.90	7612.34
Methane (CH ₄)	0.26	14.17	1416.67	124100.00	0.71	62.05
Nitrous Oxide (N ₂ O)	0.001	0.03	2.98	260.71	0.001	0.13
			Carbon Dioxi	de Equivalents (CO ₂ e) ⁶	146.79	12858.95
Carbon Dioxide Equivalents (CO ₂ e 20yr GWP+) in Ib	55.94	3020.83	163125.00	8808750.00	81.56	4404.38

1. NYSDEC Appendix A: Emission Factors for Use by State Agencies and Applicants - Table A1

2. Annual Emission Rate (lb/yr) = Emission Factor (lb/million CF) x Fuel Consumption (CF/yr)

3. Total ACTUAL Emission Rate (lb/yr) = Annual emissions from natural gas combustions (ACTUAL OPERATION)

4. Total POTENTIAL Emission Rate (lb/yr) = Annual emissions from natural gas combustion (WORSE CASE COMBUSTION)

5. Annual Emission Rate (lb/yr) = Emission Factor (lb/1000 gal) x Fuel Consumption (gal/yr)

6. Global Warming Potentials (GWPs) for CO₂, CH₄ and N₂O are 1, 84, and 264 respectively (6 NYCRR Section 496.5).

CLCPA 7.2 Criteria Pollutants	Direct Emission Factor ¹		Actual Emissions	Potential Emissions	An	nual
Pollutants GHG Emissions	Diesel	Diesel 54	Diesel 38,298 5,400	Diesel 3,354,894 473,040	Emiss From Nord (TONS P	ion Rate berg Engines PER YEAR)
	lb/mmbtu	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	162.71	8786.45	878,644.80	76,969,284.48	439.32	38484.64
Methane (CH ₄)	0.0066	0.36	35.64	3,122.06	0.02	1.56
Nitrous Oxide (N ₂ O)	0.0013	0.07	7.13	624.41	0.004	0.31
			Carbon Dioxi	de Equivalents (CO ₂ e) ⁶	441.76	38698.19

1. Direct emission factors for GHG Pollutants follow U.S. EPA GHG Emission Factor Hub - Table 1 (April 2023) - https://www.epa.gov/climateleadership/ghg-emission-factors-hub

CLCPA 7.3 Hazardous Air Pollutants	Direct Emission Factor ²		Actual Emissions	Potential Emissions	An	nual
Co-Pollutants Emissions	Diesel	Diesel 54	Diesel 38,298 5,400	Diesel 3,354,894 473,040	Emiss From Nord (TONS P	ion Rate berg Engines PER YEAR)
	lb/mmbtu	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Benzene	9.33E-04	0.0504	5.0382	441.3463	0.002519	0.2207
Toluene	4.09E-04	0.0221	2.2086	193.4734	0.0011	0.0967
Xylene	2.85E-04	0.0154	1.5390	134.8164	0.0008	0.0674
Propylene	2.58E-03	0.1393	13.9320	1220.4432	0.0070	0.6102
Formaldehyde	1.18E-03	0.0637	6.3720	558.1872	0.0032	0.2791
Acetaldehyde	7.67E-04	0.0414	4.1418	362.8217	0.0021	0.1814
Acrolein	9.25E-05	0.0050	0.4995	43.7562	0.0002	0.0219
Total PolyAromatic Hydrocarbons	0.0002	0.0091	0.9072	79.4707	0.0005	0.0397
		0.3464				
tal Hazardous Air Pollutants from 6 PLM Ge	enerators				0.0173	1.5172

1. Direct emission factors for Hazardous Air Pollutants from U.S. EPA Air Pollution Engineering Manual (AP-42), Chapter 3.1, table 3.3-2.

EXHIBIT 2 - 1b **NYC HH - NEW BELLEVUE HOSPITAL** 462 FIRST AVE, NEW YORK, NY 10016

Baseline - Emergency Generators

ESTIMATION OF GHG EMISSIONS FROM THREE (3) EMERGENCY GENERATORS

	Upstream Emission Factor ¹		Actual Emissions	Potential Emissions	An	inual
Pollutants GHG Emissions	Diesel	Diesel <mark>18</mark>	Diesel <mark>6,638</mark>	Diesel 1,118,298	Emiss From Nord (TONS F	ion Rate berg Engines PER YEAR)
	lb/mmbtu	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	32.18	579.33	30,124.92	5,074,890.48	15.06	2537.45
Methane (CH ₄)	0.26	4.72	245.56	41,366.67	0.12	20.68
Nitrous Oxide (N ₂ O)	0.001	0.01	0.52	86.90	0.0003	0.04
			Carbon Diox	ide Equivalents (CO ₂ e) ⁶	25.44	4286.32
Carbon Dioxide Equivalents (CO ₂ e 20yr GWP+) in Ib	55.94	1006.94	18125.00	326250.00	9.06	163.13

1. NYSDEC Appendix A: Emission Factors for Use by State Agencies and Applicants - Table A1

2. Annual Emission Rate (lb/yr) = Emission Factor (lb/million CF) x Fuel Consumption (CF/yr)

3. Total ACTUAL Emission Rate (lb/yr) = Annual emissions from natural gas combustions (ACTUAL OPERATION)

4. Total POTENTIAL Emission Rate (lb/yr) = Annual emissions from natural gas combustion (WORSE CASE COMBUSTION)

5. Annual Emission Rate (lb/yr) = Emission Factor (lb/1000 gal) x Fuel Consumption (gal/yr)

6. Global Warming Potentials (GWPs) for CO₂, CH₄ and N₂O are 1, 84, and 264 respectively (6 NYCRR Section 496.5).

	Direct Emission Factor ¹		Actual Emissions	Potential Emissions	Ar	nual
Pollutants GHG Emissions	Diesel	Diesel 18	Diesel 6,638	Diesel 1,118,298	Emiss From Nord (TONS F	ion Rate berg Engines PER YEAR)
	lb/mmbtu	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	162.71	2928.82	152,298.43	25,656,428.16	76.15	12828.21
Methane (CH ₄)	0.0066	0.12	6.18	1,040.69	0.003	0.52
Nitrous Oxide (N ₂ O)	0.0013	0.02	1.24	208.14	0.001	0.10
			Carbon Diox	ide Equivalents (CO ₂ e) ⁶	76.57	12899.40

1. Direct emission factors follow U.S. EPA GHG Emission Factor Hub - Table 1 (April 2023) - https://www.epa.gov/climateleadership/ghg-emission-factors-hub

	Direct Emission Factor ²	Hourly Emission Rate	Actual Emissions	Potential Emissions	An	nual
Hazardous Air Pollutants		No.2 Diesel Oil	No.2 Diesel Oil	No.2 Diesel Oil	Emissi	ion Rate
	Diesel Oil	18.0	6,638.3	1,118,297.9	From Large E	EM Generators
			936	157,680	(TONS P	ER YEAR)
	lb/(million BTU)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Benzene	9.33E-04	0.0168	0.8733	147.1154	0.0004	0.0736
Toulene	4.09E-04	0.0074	0.3828	64.4911	0.0002	0.0322
Xylene	2.85E-04	0.0051	0.2668	44.9388	0.0001	0.0225
Formaldehyde	2.58E-03	0.0464	2.4149	406.8144	0.0012	0.2034
Acetaldehyde	1.18E-03	0.0212	1.1045	186.0624	0.0006	0.0930
Acrolein	7.67E-04	0.0138	0.7179	120.9406	0.0004	0.0605
Total Poly Aromatic Hydrocarbons	9.25E-05	0.0017	0.0866	14.5854	0.0000	0.0073
Total Hazardous Air Pollutants from Two (2) CHP Units					0.003001986	0.50571918

1. Direct emission factors for Hazardous Air Pollutants from U.S. EPA Air Pollution Engineering Manual (AP-42), Chapter 3.1, table 3.3-2.

EXHIBIT 2 - 1c NYC HH - BELLEVUE HOSPITAL 462 FIRST AVE, NEW YORK, NY 10016

Project Scenario - 2 NEW COGENERATION ENGINES

ESTIMATION OF GHG EMISSIONS FROM TWO (2) COGENERATION ENGINES

	Upstream Emission Factor ¹		Actual Emissions	Potential Emissions	An	nual
Pollutants GHG Emissions	Natural Gas	Natural Gas 42,749 39	Natural Gas 341,992,157 313,607	Natural Gas 374,481,412 343,399	Emiss From Cog (TONS P	ion Rate jen Engines 'ER YEAR)
	lb/mmbtu	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	26.85	1052.67	8,421,346.33	9,221,374.23	4210.67	4610.69
Methane (CH ₄)	0.77	30.18	241477.24	264417.58	120.74	132.21
Nitrous Oxide (N ₂ O)	0.0003	0.01	96.59	105.77	0.048	0.05
			Carbon Dioxi	de Equivalents (CO ₂ e) 6	14365.47	15730.19

1. NYSDEC Appendix A: Emission Factors for Use by State Agencies and Applicants - Table A1

2. Annual Emission Rate (lb/yr) = Emission Factor (lb/million CF) x Fuel Consumption (CF/yr)

3. Total ACTUAL Emission Rate (lb/yr) = Annual emissions from natural gas combustions (ACTUAL OPERATION)

4. Total POTENTIAL Emission Rate (lb/yr) = Annual emissions from natural gas combustion (WORSE CASE COMBUSTION)

5. Annual Emission Rate (lb/yr) = Emission Factor (lb/1000 gal) x Fuel Consumption (gal/yr)

6. Global Warming Potentials (GWPs) for CO₂, CH₄ and N₂O are 1, 84, and 264 respectively (6 NYCRR Section 496.5).

7. Actual and Potential Usage calculated on worst case scenario bases - 500 hours, as per 6 NYCRR 200.1(cq)

	Direct Emission Factor ¹		Actual Emissions	Potential Emissions	An	inual
Pollutants GHG Emissions	Natural Gas	Natural Gas 42,749 39	Natural Gas 341,992,157 313,607	Natural Gas 374,481,412 343,399	Emiss From Cog (TONS P	ion Rate jen Engines ER YEAR)
	lb/mmbtu	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	116.98	4585.60	36,684,826.59	40,169,885.11	18342.41	20084.94
Methane (CH ₄)	0.0022	0.09	691.38	757.07	0.35	0.38
Nitrous Oxide (N ₂ O)	0.00022	0.01	69.14	75.71	0.035	0.04

Carbon Dioxide Equivalents (CO₂e)⁶ 18380.58 20126.73

1. Direct emission factors follow U.S. EPA GHG Emission Factor Hub - Table 1 (April 2023) - https://www.epa.gov/climateleadership/ghg-emission-factors-hub

	Emission Factor	Hourly Emission Rate	Actual Emissions	Potential Emissions	Ar	nnual
Hazardous Air Pollutants		Natural Gas	Natural Gas	Natural Gas	Emiss	sion Rate
	Natural Gas	42,749.0	341,992,156.9	374,481,411.8	From Cog	gen Engines
		39	313,607	343,399	(TONS F	PER YEAR)
	lb/(million BTU)	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Benzene	1.58E-03	0.0619	495.4988	542.5711	0.2477	0.2713
Toulene	5.58E-04	0.0219	174.9926	191.6169	0.0875	0.0958
Xylene	1.95E-04	0.0076	61.1533	66.9629	0.0306	0.0335
Formaldehyde	2.05E-02	0.8036	6428.9396	7039.6888	3.2145	3.5198
Acetaldehyde	2.79E-03	0.1094	874.9630	958.0845	0.4375	0.4790
Acrolein	2.63E-03	0.1031	824.7859	903.1406	0.4124	0.4516
Total Poly Aromatic Hydrocarbons	1.41E-04	0.0055	44.2186	48.4193	0.0221	0.0242
Total Hazardous Air Pollutants from Two (2) CHP Units		1.1131	8904.5517	9750.4841	4.4523	4.8752

1. Direct emission factors for Hazardous Air Pollutants from U.S. EPA Air Pollution Engineering Manual (AP-42), Chapter 3.2, table 3.2-3.

EXHIBIT 2 - 1d NYC HH - BELLEVUE HOSPITAL 462 FIRST AVE, NEW YORK, NY 10016

Project Scenario - 2 NEW COGENERATION ENGINES

ESTIMATION OF GHG EMISSIONS FROM PURCHASED CON ED ENERGY BEFORE COGEN *Based on Energy Model performed for this project

Usage	Energy Consumption (mmBTU/year)	NYC Local Law 97 GHG Intensity (kg CO2e/mmBTU)	Annual GHG Emissions (Tons CO2e)	Total Annual GHG Emissions (Tons CO2e)
With Action (Cogen)				
Electricity	200895	35.902	7948.221742	25106 76156
Natural Gas	313544	53.196	18380.57386	23100.70130
No Action (No Cogen)			•	•
Electricity	559273	35.902	22127.07529	29424 65625
Steam	88867	64.306	6297.581062	20424.00000
Reduction	105555			

Upstream Emission Factor ¹ for No Action Scenario (No Cogen)			Actual Emissions	Potential Emissions	An	nual
Pollutants Natural Gas ConEd Energy GHG Emissions 648,140 mmBTU		ConEd Energy 648,140 mmBTU	ConEd Energy 648,140 mmBTU	Emission Rate From Cogen Engines (TONS PER YEAR)		
	lb/mmbtu	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	26.85	1986.83	17,404,631.25	17,404,631.25	8702.32	8702.32
Methane (CH ₄)	0.77	56.97	499,067.75	499,067.75	249.53	249.53
Nitrous Oxide (N ₂ O)	0.0003	0.02	199.63	199.63	0.100	0.10
			Carbon Dioxid	e Equivalents (CO ₂ e) ⁶	29689.51	29689.51

1. NYSDEC Appendix A: Emission Factors for Use by State Agencies and Applicants - Table A1

2. Emission factor for natural gas used to estimate emission from using ConEd-generated energy

Upstream Emission F	actor ¹ for Wit (Cogen)	h Action Scenario	Actual Emissions	Potential Emissions	An	inual
Pollutants Natural Gas ConEd Energy GHG Emissions 200,895 mmBTU		ConEd Energy 200,895 mmBTU	ConEd Energy 200,895 mmBTU	Emiss From Cog (TONS F	ion Rate jen Engines PER YEAR)	
	lb/mmbtu	lb/hr	lb/yr	lb/yr	ACTUAL	POTENTIAL
Carbon Dioxide (CO ₂)	26.85	615.83	5,394,673.61	5,394,673.61	2697.34	2697.34
Methane (CH ₄)	0.77	17.66	154,689.15	154,689.15	77.34	77.34
Nitrous Oxide (N ₂ O)	0.0003	0.01	61.88	61.88	0.031	0.03
			Carbon Dioxid	le Equivalents (CO ₂ e) ⁶	9202.45	9202.45

1. NYSDEC Appendix A: Emission Factors for Use by State Agencies and Applicants - Table A1

EXHIBIT 3 NYC HHC - BELLEVUE HOSPITAL 462 FIRST AVE, NEW YORK, NY 10016

GHG Emissions Reduction Summary

	Upstream Carbon Dioxide Equivalents (CO2e) TPY		Change	
	Baseline	Project Scenario	-	
ESTIMATION OF GHG EMISSIONS FROM DEMAND RESPONSE GENERATORS	146.79	146.79	-	
ESTIMATION OF GHG EMISSIONS FROM EMERGENCY GENERATORS	25.44	25.44	-	
ESTIMATION OF GHG EMISSIONS FROM TWO (2) NEW CATERPILLAR ENGINES	0.00	14365.47	14,365.47	
	29689.51	9202.45	-20487.06	
Total Carbon Dioxide Equivalents [CO2e] (TPY)	29861.74	23740.15	-6121.59	

	Direct Carbon Dioxide	e Equivalents (CO2e)		
	Baseline	Project Scenario	Change	
ESTIMATION OF GHG EMISSIONS FROM DEMAND RESPONSE GENERATORS	441.76	441.76	-	
ESTIMATION OF GHG EMISSIONS FROM EMERGENCY GENERATORS	76.57	76.57	-	
ESTIMATION OF GHG EMISSIONS FROM TWO (2) NEW CATERPILLAR ENGINES	0.00	18380.58	18,380.58	
ESTIMATION OF GHG EMISSIONS FROM PURCHASE OF CONED ENERGY	28424.66	7948.00	-20476.66	
Total Carbon Dioxide Equivalents [CO2e] (TPY)	28,942.99	26,846.91	-2096.08	

	Direct Hazardou		
	Baseline Project Scenario		Change
ESTIMATION OF GHG EMISSIONS FROM DEMAND RESPONSE GENERATORS	0.02	0.02	-
ESTIMATION OF GHG EMISSIONS FROM EMERGENCY GENERATORS	0.00	0.00	-
ESTIMATION OF GHG EMISSIONS FROM TWO (2) NEW CATERPILLAR ENGINES	0.00	4.45	4.45
Total Hazardous Air Pollutants (TPY)	0.02	4.47	4.45

Note: Annual emission estimations for these units are expected to remain consistent through years 2030 and 2050, to be offset by emission reduction projects mentioned in accompanying cover letter. Emission reductions comparative to baseline emissions are also expected to remain consistent.

Public Participation Plan

PUBLIC PARTICIPATION PLAN

Applicant: New York City Health and Hospitals

Facility: NYC Health + Hospital / Bellevue

NYSDEC Application Number: 2-6206-00032/00004

As Required by: NYSDEC Commissioner's Policy Guidance CP-29

Submitted to: New York State Department of Environmental Conservation NYSDEC Region 2 47-40 21st Street Long Island City, NY 11101-5401

> **Date:** May 2, 2023

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List of Acronyms

Acronym	Definition
CP-29	Commissioner Policy 29, Environmental Justice and
	Permitting
NOCA	Notice of Complete Application
NYSDEC	New York State Department of Environmental Conservation
PEJA	Potential Environmental Justice Area
PPP	Public Participation Plan
NYC HHC	New York City Health and Hospitals Corporation

I. INTRODUCTION AND OBJECTIVE

This Public Participation Plan (PPP) has been prepared by New York City Health and Hospitals Corporation (hereinafter referred to as "applicant") to fulfill and comply with the requirements of New York State Department of Environmental Conservation **Commissioner Policy 29, Environmental Justice and Permitting (CP-29)** for their proposed installation of two (2) new natural gas fired co-generation Engines – Caterpillar G3516H, each with 1982 kW rating, that requires a State Facility Air Permit application modification and which has been determined by NYSDEC to potentially impact one or more potential environmental justice area (PEJA) (See Figure 1).

This PPP has been developed in accordance with the procedures established in CP-29 Section V.D and it aims to help ensure meaningful and effective public participation throughout the NYSDEC environmental permit review process. Public participation in the NYSDEC environmental permit review process means a program of activities that provides opportunities for stakeholders to be informed about and involved during the review of a proposed action.

The objective of this PPP is to outline and describe the program of activities that the applicant will implement to actively seek and enhance public participation during the application review process.



Figure 1. Project Location and Potential Environmental Justice Area(s)

II. PROJECT DESCRIPTION AND PROPOSED ACTION

Project Overview

The applicant proposes to install two (2) new cogeneration units that would allow the hospital to generate its own heat and electricity thus becoming less reliant on utility services. To implement the proposed project, the applicant has submitted an application to the New York State Department of Environmental Conservation (NYSDEC) for State Facility Air permit(s) to construct and operate two new engines with nitrogen oxide emissions under 25 tons per year. The engines will be installed outside of the main building in the South Lot. The facility's address is 462 1st Ave, New York, NY 10016.

Nature of Proposed Project/Action and Purpose

The proposed CHP system would consist of two (2) 1982 kW (approximately 2 MW) natural-gas fired engines anticipated to operate continuously to provide electrical and thermal energy to the facility 24 hours per day. Both engines will be equipped with a Selective Catalytic Reduction (SCR) and Oxidation Catalyst System for reduction of NOx, CO, and VOC emissions. The engines will be housed on a newly built platform in a lot owned by Bellevue Hospital next to the Emergency Department. The CHP engine enclosure will sit on the platform approximately 25 feet above grade. Each engine will have an individual stack that will be routed up the adjacent A-Building exterior wall to a height of 180 ft above the Emergency Department roof and CHP enclosure (approximately 200 ft above grade). The stacks will extend 10 feet above the A-Building façade and 30 feet above the A-Building Roof/Penthouse.

Purpose/Need

The primary goal of this project is to provide Bellevue Hospital with a 4MW Combined Heat and Power (CHP) system capable of meeting two tasks: (1) Delivering on-site power to the facility in the event of an electrical utility outage for an extended amount of time, and (2) Reducing energy costs and increasing energy efficiency for the facility. The purpose of the CHP is to operate a 'base load' manner producing both electric and thermal energy 24-hours per day throughout the year. Electrical power will be generated within two separated, identical CHP enclosures each rated at 2MW. Thermal 'waste' energy will be simultaneously recovered from both engines' cooling water systems and exhaust gas streams to produce hot water. This heated water will then be used to offset steam purchased from Con Edison.



SITE PLAN

Figure 2. Site Plan

Potential Impacts

Emission Impact

In the proposed project, the facility's annual emissions remain below 24.9 tons per year of NOx, due to the reduced emissions of the new cogeneration engines by SCR/Oxidation Catalyst systems. The increased emission from the cogeneration engines, assuming operation 24 hours per day and 7 days per week, increases NOx emissions by 4.8 tons per year, for a total of 18.8 tons per year. While the facility's emissions will increase due to producing electricity and steam on site, the facility's energy production will actually be more efficient (in kWh per year) and reduce the amount of energy that is used to power

the facility when compared to the energy purchased annually from Con Edison, for an annual reduction of 134,422 mmBTU of electricity.

Community Impact

The cogeneration units will be constructed on the property's South Lot, which is surrounded on all sides by hospital property. No public community spaces will be impacted. While this expansion of usage will cause a minor increase in emissions, the installation of these engines are critical to hospital functions. Bellevue Hospital serves a large community of residents in Manhattan. In the event of power grid failures or other losses of heat and electricity, the hospital's ability to produce its own energy is crucial to enable continuation of hospital operations and support those at the hospital relying on power and electricity for important medical procedures and for survival.

III. STAKEHOLDER IDENTIFICATION & CONTACT LIST

A contact list consisting of the names, addresses, phone numbers, or email addresses of stakeholders to the proposed action is provided in Appendix A. The contact list includes individuals and organizations with a direct stake in the proposed action and people and individuals and organizations that have expressed interest in the proposed project or similar projects affecting the same neighborhood or community.

To develop a draft contact list, the applicant reached out to neighborhood groups who are near or adjacent to the proposed project and that will be or potentially will be affected by the operation; community boards, community leaders, local community, civic and recreational organizations, and business groups to help identify stakeholders and develop an initial contact list.

The current contact list has been developed in consultation with NYSDEC by identifying stakeholders from the following categories: local government and elected officials; business owners, residents, and occupants; local civic, community, religious organizations; local news media; administrator/operator of any school or day care that live, work and/or represent a neighborhood or community within a 0.3-mile radius of the project area (see Figure 3).

The applicant will utilize this contact list to communicate and disseminate information about the proposed project/action and permit application review process to the affected community and stakeholders. At minimum, this includes distribution of the written information and outreach materials described in Section V to inform the community about upcoming public meetings and opportunities for public participation.

The contact list will be reviewed periodically and updated as appropriate throughout the permit application review process. The applicant will update the contact list with any new stakeholders identified during the public meeting or execution of other PPP components. In addition, individuals and organizations will be added to the contact list upon request. Such requests should be submitted to the project liaison identified in Section IV. Other additions to the contact list may be made at the discretion of the applicant or, at the request of the NYSDEC project manager, in consultation with other NYSDEC staff, as appropriate.



Figure 3. Outreach Radius Map

IV. PROJECT LIAISON

A representative from the project team will be available during business hours at:

- Anthony Muhlig, Construction Manager
- 516-974-9712
- amuhlig@guthdeconzo.com
- 1983 Marcus Ave., Suite 103, Lake Success, NY 11042

Impacted residents and interested stakeholders can contact the project liaison listed above to provide input to the project team, discuss any issues or concerns and/or to ask questions or request information. The project liaison shall respond in a timely manner and in the manner appropriate to question or information request received. The project liaison will be responsible for tracking and documenting public input, inquires, questions, and information requests received, along with responses provided.

V. PUBLIC OUTREACH ACTIVITIES

The applicant will utilize a range of engagement strategies and conduct various public outreach activities to facilitate participation, involvement, and direct communication with the affected community during the permit application review process. The applicant will implement the public outreach activities outlined below upon finalization and approval of this PPP by NYSDEC.

In compliance with the requirements of CP-29, the applicant will hold public information meeting(s) to keep the public informed about the proposed action and the environmental permit review process. At minimum, the applicant will prepare, distribute and post written information and materials, including a meeting notice and fact sheet, to encourage dialogue and solicit input from interested stakeholders during the permit application review process. All public outreach materials and information will be prepared and presented in an easy-to-read, understandable format, using plain language free of legal terminology, and geared towards a non-technical audience.

The public meeting notice and fact sheet will be made available and disseminated in both English and Spanish. In addition, the public can contact the project liaison regarding the availability of language assistance and to request that the notice and fact sheet are translated into another language for comprehension by non-English speaking or limited proficiency stakeholders.

Public Meeting(s)

At the discretion of NYSDEC and, depending on the scale and nature of a project, one or more virtual public meeting(s) must be conducted to satisfy the intent of CP-29.

A meeting is typically required near the end of the permit application review process to inform the public about: the status of, or, if applicable, the availability of, final application materials and draft permits for review; the pending NYSDEC public comment period, and deadline to submit written comments to NYSDEC, if established; and eventual final decision.

Public Meeting: At or Near Completeness

Applicant will facilitate a virtual public meeting on June 7, 2023 at 6:00pm to:

- Inform the public about the proposed project/action and permit application review status.
- Provide the opportunity to for stakeholders to ask questions and express concerns about the project and identify how to obtain information or answers to questions after the meeting has concluded.
- Inform attendees how they may submit written comments on the permit application to the NYSDEC during the public comment period and, if available, identify any applicable deadlines.

Necessary Meeting Discussion Points and Requirements

All meetings will be facilitated by the applicant and/or representatives from their project team (project personnel) via WebEx. During the meeting, the applicant and representatives from their project team will present a brief overview of the project, including any relevant background information, details on the permitting action, scope of work, schedule, and community impacts. The second part of the meeting will include a question-and answer-portion where the floor will be open for attendees to ask questions, make remarks, and/or express concerns. In addition, the following discussion points will be addressed:

- Provide an update on the permit application review process and identify outstanding application requirements and future milestones in the application review process.
- Make it clear that the meeting is being held prior to NYSDEC's permitting decision for the project/action.
- Identify the location of the online document repository and provide directions on how attendees may obtain and review materials relevant to the application, documents related to the meeting and other public participation plan components.
- Identify and provide contact information for the project liaison and announce procedures for how attendees may obtain answers to questions after the meeting has concluded and interested stakeholders can submit questions, express concerns, or request additional information by telephone, email, and in writing.
- Announce any future outreach, opportunities for public participation, and /or required follow-up with attendees including, but not limited to: additional meetings and future mailings, including, but not limited to the Notice of Complete Application.

Attendance will be recorded during the virtual meeting by obtaining an attendance report generated by WebEx. The applicant will track the number of attendees for all meetings held during implementation of this PPP and, where feasible and applicable, identify any affiliation of participants and interests represented at the meeting. In addition, the applicant will be responsible for documenting meeting notes or minutes, along with a record of comments and questions raised in the meeting and respective responses and answers provided. Attendees not identified on the contact list will have the option to be added in the event of future meetings or information sharing.

Virtual Public Meeting Notice Preparation and Distribution

Information regarding the details of the virtual public meeting(s) and how to participate via computer and/or telephone is contained in the reader-friendly meeting notice(s) shown in Appendix B. The notice has been prepared in English and will be translated into Spanish by a certified translator. Through this notice, the public will be invited and encouraged to attend the public virtual meeting scheduled on June 7 at 6:00pm.

Once the PPP has been approved by NYSDEC the public meeting notice will be posted and available in the online document repository described in Section VI of this document. At least two weeks in advance of the public virtual meeting, the notice will be published in the Our Town Downtown which is a weekly newspaper printed, published, and circulated daily in Lower Manhattan near the project site. In addition, the public meeting notice will be emailed, mailed and/or hand delivered (door-to-door) to the stakeholders identified in the contact list in Appendix A at least two weeks prior to the public virtual meeting.

Fact Sheet Preparation and Distribution

Factual information on the proposed project/action, including an overview, purpose statement, and potential impacts, is outlined in the reader-friendly fact sheet shown in Appendix C. In addition, the fact sheet outlines how interested stakeholders can: participate in the permit application review process; access the online document repository to review relevant application materials prior to the public meeting; and contact the project team to obtain additional information. The fact sheet has been prepared in English and will be translated into Spanish by a certified translator.

Once the PPP has been approved by NYSDEC the fact sheet will be posted and available in the online document repository described in Section VI of this document. No later than 2 weeks prior to the public meeting, the applicant will distribute the fact sheet to provide stakeholders with relevant background on the proposed project/action and facilitate meaningful participation during the meeting. The fact sheet will be distributed together with the public meeting notice via email.

The fact sheet(s) will also be posted within the vicinity of the project site and visible to the public. For example, they may be posted on some streetlight lampposts or bulletin boards located in the lobby of residential complex buildings or public facilities such as libraries, schools, or community centers within the project site.

Distribution of Notice of Complete Application

Once NYSDEC determines the application(s) for the proposed action/project is complete and provides the Notice of Complete Application (NOCA) to the applicant, the applicant will distribute the NOCA and draft permit, if applicable, to the meeting attendees and any identified interested parties, to provide notification regarding the start of the NYSDEC public comment period and to announce the deadline for submission of written comments to NYSDEC. If the NOCA is available at the time of the meeting, the applicant will distribute the NOCA at the public meeting. If the NOCA is not available at the time of the meeting, the applicant will provide explicit instructions on how to access the online repository and inform the attendees that, once available, the NOCA will be posted to the online document repository and will be distributed to attendees via email or mail as soon as possible, but no later than the date that the NOCA is published by the applicant in the print edition of a paid local newspaper that is circulated at least weekly and available in the municipality in which the project is located.

VI. DOCUMENT REPOSITORY

An online document repository has been established for the community and interested stakeholders to access and review information about the project. The online repository available at https://www.nychealthandhospitals.org/bellevue/about/ will provide information and documents relating to the project and permit application.

The repository will be updated throughout the application process with project-related information and written materials (i.e., application forms and supporting materials, draft permit, fact sheet, statement of basis (where applicable), the Notice of Complete Application provided by the NYSDEC, etc.).

VII. SUBMISSIONS

Final Summary Report and Written Certification

Upon completion of the enhanced public participation plan, the applicant will submit written certification to NYSDEC to certify that it has fully executed and complied with the approved PPP. The certification shall be signed by the applicant, or the applicant's agent, and submitted to NYSDEC prior to a final decision on the application.

As part of the certification, the applicant shall submit a final summary report documenting the implementation of this PPP. The report will summarize the activities that occurred in accordance with the PPP and will identify any substantive concerns raised by stakeholders during the public meeting, or, at any time throughout the permitting process and detail the applicant's response(s) to any such concerns or questions. The applicant will include, or append, any documentation that supports the final summary report, such as: the meeting sign-in sheet(s), record of attendees/participants, meeting presentation, notes or minutes, summary of questions and answers, and copy of newspaper notice or other proof of publication. In addition, the report will identify any changes or modifications to the proposed project that were made or considered by the applicant to address or reduce concerns surrounding the permit application.

The final summary report and written certification will become part of the application record and will be posted to the online document repository so that it is readily available to the public.

APPENDIX A Contact List

NYSDEC Application #: 2- 6206-00032/00004						
Facility N	ame: NYC-H+H – N Hospital	ew Bellevue	List Last Updated: 11/02/2022			
Postal Customer	Name, Title	Address 1	Address 2	City	State	Zip
	Keith Powers, NYC Council Member	211 East 43rd Street, Suite 1205	kpowers@council .nyc.gov	New York	NY	10017
	Legislative Office	250 Broadway, Suite 1815		New York	NY	10007
	Harvey Epstein, NYS Assemblyman	107 & 109 Avenue B	epsteinh@nyasse mbly.gov.	New York	NY	10009
	Brad Hoylman, NYS Senator	322 Eighth Avenue, Suite 1700	hoylman@nysena te.gov	New York	NY	10001
		Legislative Office Building, Room 310		Albany	NY	12247
	Kristen Gillibrand, US State Senate	780 Third Avenue, Suite 2601	https://www.gillib rand.senate.gov/c ontact/email-me/	New York	NY	10017
	Chuck Schumer, US State Senate	780 Third Avenue, Suite 2301	https://www.schu mer.senate.gov/c ontact/email- chuck	New York	NY	10017
	Eric Adams, Mayor	City Hall	https://www.nyc. gov/office-of-the- mayor/mayor- contact.page	New York	NY	10007
	Alexandria Ocasio-Cortez, US House of Representatives	216 Cannon HOB	http://ocasio- cortez.house.gov/ contact	Washington	DC	20515
	Daily News, Local News Media	220 E 42nd St	voicers@nydailyn ews.com	New York	NY	10017
	Manhattan Times, Local News Media	5030 Broadway	editor@manhatta ntimesnews.com	New York	NY	10034
	The British International School of New York, School	20 Waterside Plaza	<u>info@bis-ny.org</u>	New York	NY	10010
	United Nations International School, School	24-50 FDR Dr	N/A	New York	NY	10010

Acorn Preschool	330 E 26th St	hdaub@acornsch oolny.com	New York	NY	10010
Public School 47	E 23rd St	wshama@schools. nyc.gov	New York	NY	10010
NYPL Epiphany Library, Document Repository	228 E 23rd St	patronservices@n ypl.org	New York	NY	10010
First Christian Church of the Valley, Religious Organization	234 E 27th St	N/A	New York	NY	10016
Church of the Epiphany, Religious Organization	375 2nd Ave	N/A	New York	NY	10010
Congregation Talmud Torah Adereth El, Religious Organization	135 E 29th St	<u>info@aderethel.or</u> g	New York	NY	10016
Parc East Apartments	240 East 27th St	N/A	New York	NY	10016
The Grayson Apartments	247 East 28th St	N/A	New York	NY	10016
Kips Bay Court	480 Second Ave	kips@beamliving.c om	New York	NY	10016
Phipps House	330 E 26th St	pn@phippsny.org	New York	NY	10016
Carmel Place	335 E 27th St	N/A	New York	NY	10016
Prism Apartments	50 E 28th St	N/A	New York	NY	10016
Renwick Gardens	332 E 29th St	info@metreal.co m	New York	NY	10016

APPENDIX B Virtual Public Meeting Notice (English and Spanish)

HEALTH + HOSPITALS YOU ARE INVITED

Virtual Public Meeting

June 7 at 6:00 pm

Installation of a 4MW Cogeneration System at Bellevue Hospital

New York City Health and Hospitals Corporation has submitted an application to the New York State Department of Environmental Conservation (NYSDEC) for a State Facility Air permit for the installation of 2 cogeneration units. A Public Participation Plan has been developed in accordance with NYSDEC Commissioner Policy 29, Environmental Justice and Permitting (CP-29). The purpose of this meeting is to inform the public about the project and to involve the community during the State Facility Air permit application review process.

To Join Online

Click the following link: Dial in using the https://hhc.webex.com/hhc/j.php?MTID=m 1-844-621-3956 15f7b6a32360500aa3f1f79103a5f4f7 When prompted

To Call-in Using a Phone Dial in using the following number: 1-844-621-3956 When prompted, enter the Meeting ID: 230 173 31111 Webinar Password: bellevue2023! (23553884 from phones and video systems)

Agenda:

- Project Overview
- Background
- Scope of work
- Project schedules
- Community Impacts
- Questions and Answers

Your Attendance is Important!

Project personnel will be available to answer questions from the community. For additional information on the proposed project:

 Contact: Anthony Muhlig by phone at 516-974-9712 or by email at amuhlig@guthdeconzo.com

• Visit the repository at: https://www.nychealthandhospitals.org/bellevue/about/ Contact the project liaison to request reasonable accommodation for a disability or interpreter services in a language other than English, so that you can participate in the call and/or to request a translation of any of the event documents into a language other than English.

APPENDIX C Fact Sheet and FAQ (English and Spanish)

<u>Cogeneration System</u> <u>at Bellevue Hospital</u> <u>Fact Sheet</u>

- Project: Installation of 2 Cogeneration Units
- Applicant: NYC Health and Hospitals Corporation
- Facility: NYC Health and Hospitals Bellevue Hospital, 462 First Ave, New York, NY 10016
- NYSDEC Application Number: 2-6206-00032/00004
- A Public Participation Plan (PPP) has been developed in accordance with NYSDEC Commissioner Policy 29, Environmental Justice and Permitting (CP-29)

What is the Proposed Project?

The Proposed Project will involve the installation and operation of two (2) new natural gas fired cogeneration Engines – Caterpillar G3516H, each with 1982 kW rating. To implement the proposed project, NYC Health and Hospitals has submitted an application for a State Facility Air Permit Modification to the New York State Department of Environmental Conservation (NYSDEC) to permit the Cogen units in its current State Facility Air Permit issued by NYSDEC and the nature of the project is to generate its own heat and electricity, offering greater energy independence by moving a portion of the load off the grid . The purpose of this fact sheet is to inform the public about tisproposed project and to involve the community during the NYSDEC permit application review process.

Why does NYC HHC need to Install Two Cogen Engines?

The primary goal of this project is to provide Bellevue Hospital with a 4MW Combined Heat and Power (CHP) system capable of meeting two tasks: (1) Delivering on-site power to the facility in the event of an electrical utility outage for an extended amount of time, and (2) Reducing energy costs and increasing energy efficiency for the facility.

How might the project affect the surrounding community?

The installation of these cogeneration units will lead to an increase in air emissions on the Bellevue Hospital Site. However, air quality modelling has been performed to ensure the addition of these units will not impact ambient air quality. While the production of emissions will increase on site, installing new, state-of-the-art engines will allow the facility's energy use to be more efficient and will actually reduce the facility's overall energy use from what is normally purchased off site for the facility.

How can I participate in the permit review process?

- Attend the upcoming virtual public meeting scheduled for June 7 at 6:00pm to learn about the project, ask questions and/or express concerns about the project.
- Ask questions, express concerns, provide input or submit by comments in writing, by phone or email to the project contact person identified below.

Where can I get more information about the proposed project?

- Visit the online document repository at: https://www.nychealthandhospitals.org/bellevue/about/ to obtain application materials, relevant documents, and information about the project.
- Contact Anthony Muhlig by phone at 516-974-9712, by email at amuhlig@guthdeconzo.com or in writing at: 1983 Marcus Ave., Suite 103 | Lake Success, NY 11042 for information on the project, instructions on how to attend the upcoming virtual public meeting, or to find out about the status of the permit application and public comment period.

Who is responsible for reviewing the Permit Application?

 NYSDEC Region 2 Headquarters, 47-40 21st St., Long Island City, NY 11101, is responsible for reviewing and issuing the required permits. Tel: (718) 482-4997; email: <u>DEP.R2@dec.ny.gov</u>



Cogeneration System

Frequently Asked Questions

What is cogeneration (Cogen) and how will it work at NYC Health + Hospitals/Bellevue?

Cogeneration (Cogen) is a process that generates two forms of energy (electricity and heat) from a single fuel source. Natural gas is burned to drive an engine which provides the torque to spin a generator and produce electricity. Also known as Combined Heat and Power (CHP), Cogen captures and reuses the engine's exhaust waste heat to reuse it in multiple ways.

Large facilities, such as hospitals, are increasingly turning to Cogen to boost energy efficiency, save money, and relieve pressure on the existing electrical grid. Cogen provides a reliable backup energy source in case of power failure or other disasters.

Bellevue's new Cogen system will consist of two new gas engines that will generate approximately 4 Megawatts of electricity every hour of operation. The waste heat captured during the operation of the engine's cooling system will be used to make hot water, low-pressure steam, and other uses that the hospital requires for uninterrupted patient care.

Why is Bellevue switching to a Cogen system?

NYC Health + Hospitals is taking steps to advance sustainability and climate action goals by implementing this project. Cogen systems provide considerable environmental and economic benefits over purchased electricity:

 The new Cogen system will help Bellevue achieve greater campus resiliency by enabling the hospital to maintain its mission-critical functions even when the electric grid is not available and emergency generators fail.

- As a power-producing resource, Cogen reduces the demand on the grid, enhancing its stability and relieving the congestion that can lead to brownouts and blackouts.
- + Bellevue will continue to purchase power and steam from the local utility provider, though the quantities will be significantly reduced. An on-site Cogen system will typically generate electricity at a less expensive rate than purchasing the same amount of electricity. This is primarily because Cogen systems use less fuel to produce the same amount of electrical energy, resulting in lower energy bills for the hospital.
- Power from the Cogen unit is expected to produce electricity to meet 60 percent of the hospital's power needs during the winter and 40 percent during the summer
- Cogen systems capture and use heat that would otherwise be wasted from the production of electricity, decreasing the amount of fuel needed to produce the same amount of energy. A Cogen module produces the least amount of carbon dioxide per kilowatt (kW) of useful work of any comparable fossil fuel heat source.
- A Cogen module produces the least amount of carbon dioxide per kilowatt (kW) of useful work of any comparable fossil fuel heat source. By consuming less fuel per unit of energy produced, Cogen systems significantly reduce other greenhouse gas emissions and pollutants such as nitrogen oxide and sulfur dioxide.
- Cogen is a key component of NYC Health + Hospital's compliance with Local Law 97 which outlines the City's commitment to reducing greenhouse gas emissions by at least 50 percent by 2030.

How will the Cogen system impact the surrounding community?

- The Cogen system is a self-contained unit located in the hospital's South Parking Lot, which is enclosed on three sides by the Bellevue campus. The system is not visible from the street or sidewalks.
- Construction will not impact pedestrian or vehicular traffic, nor interrupt access to the emergency room or hospital entrances. There will be no significant increase in noise levels during construction.
- Project completion would result in an overall reduction in greenhouse gas emissions within the local community, and generate less demand for water resources. The project is part of the hospital's efforts to reduce its carbon footprint and meet New York State and City initiatives to curtail and eventually achieve net zero greenhouse gas emissions.

Will flooding and rising sea levels affect the Cogen system?

The Cogen plant will improve Bellevue's ability to handle storm events. Equipment is being designed and positioned specifically to maintain operation during severe weather conditions.

All the key equipment in the new Cogen system will be built above the anticipated 500-year flood level.



As utility work progresses on campus, we have already relocated critical equipment to elevations that will not be prone to flood damage in the future.

How common is Cogen in North America?

Currently, Cogen applications supply approximately 8 percent of all the energy consumed in the United States. Other hospital systems, including NYU Langone, in the proximal area to Bellevue have switched to Cogen for the benefits identified above.

Additional Information on Cogen Systems

View the EPA website for additional details about the <u>benefits of cogeneration</u> in terms of efficiency, costeffectiveness, and environmental impac

