CORRECTED FORM REC'D VIA E-MAIL- 02/09/11 - PROCESSING TATE

ETHYLENE OXIDE STERILIZERS AIR GENERAL PERMIT NOTIFICATION FORM

Part III. Notification of Intent to Use General Permit

Prior to filling out this form, please read the instructions provided at the end of the form. Send completed form to the address listed in the instructions and keep a copy of the form for your files.

Facility Name and Location

1. Facility Owner/Company Name (Name of corporation, agency, or individual owner):

Medtronic Inc.

2. Site Name (For example, plant name or number):

Medtronic Inc. EtO Sterilization Facility

- 3. Hazardous Waste Generator Identification Number: 0310379-003
- 4. Facility Location:

Street Address: 6743 Southpoint Drive, North

City: Jacksonville

County: **Duvai**

Zip Code: **32216** - 6218

5. Facility Identification Number (DEP Use ONLY - do not fill in):

0310379-004

Responsible Official

6. Name and Title of Responsible Official:

Name: Emmanuel Dujarric

Title: Sr. Director Operations

7. Responsible Official Mailing Address:

Organization/Firm: Medtronic Inc.

Street Address: 6743 Southpoint Drive, North

City: Jacksonville

County: **Duval**

Zip Code: 32216

8. Responsible Official Telephone Number:

Telephone:

(904) 332-8556

Fax: (904) 332-8321

Facility Contact (If different from Responsible Official)

9. Name and Title of Facility Contact (For example, plant manager):

Tiffany Hickson, EHS Officer

10. Facility Contact Address:

Street Address: 6743 Southpoint Drive, North

City: Jacksonville

County: **Duval**

Zip Code: **32216**

11. Facility Contact Telephone Number:

Telephone: (904) 296-9600 ext. 6704

Fax: (904) 332-8321

DEP Form No. 62-213.900(3)

Effective: 2/24/99

Facility Information

1. Ethylene oxide sterilization unit description.

(a) Have man.			l:+ii+	d	harra an aita0	, ,
(a) How many	v ernviene	oxide sieri	uzanon unu	s ao vou	nave on-site?	. [2
(-,	,,	Cittae Steri	ILLUTION GITT			~

For each unit on-site, please provide the following information:

Vent Type	Date Initially Purchased From Manufacturer	Status	Control Device Required	Date Control Installed (if same as purchase date, write "SAME")
SC	October 2010	New	Yes	SAME
sc	October 2010	New	Yes	SAME
AR	October 2010	New	Yes	SAME

								_
*V	ENT 1	TYPE KEY:	SC = S	terilization	Chamber	CE =	Chamber Exhaust	AR = Aeration Room
	(b)	Control de	vices are req	uired, but	not yet installed	Y	/ES	n i y W ii
2.	(a)	What was	the total amo	ount of ethy	lene oxide purc	hased i	in the latest 12 month	s? [_ 0 _] tons
	(b)	If less than	12 months,	how many	? [_ 0 _] montl	ns		
		Check why	y it is less tha	an 12 mont] New facility: [records: []	_ X_]
3.		control techi cate with an		uired for s	erilization units	pursua	ant to this general per	mit?
	A	Acid-water s	crubber		Other			
	, (Catalytic oxi	dation unit	[X]	None re	equirec	ı 🗀	
	1	Thermal oxid	dation unit					
4.	Equipn	nent Monitor	ring and Rec	ordkeeping	Information			
Ch	eck all	logs which	are required	to be kept	on-site in accord	ance w	vith the requirements	of this general permit:
(a)	Purcha	ase receipts f	for ethylene	oxide purcl	nases		[_ X _]
(b)	Tempe	erature moni	itoring for ox	idizer unit	S		[_ X _]
(c)	Liquo	r tank level r	nonitoring				[N/A	ر
(d)	Conce	ntrations of	ethylene gly	col in scrul	ber systems		[N/A	_l .
(e)	Exhau	st concentra	tions of ethy	lene oxide			[N/A	J
(f)	Perfor	mance testir	ng				[_ X]
(g)	(g) Instrument calibration					[X]	1	

DEP Form No. 62-213.900(3)

Effective: 2/24/99

5. Surrender of	Existing DEP Air Permit(s)
Please indicate	with an "X" the appropriate selection:
لــا	I hereby surrender all existing DEP air permits authorizing operation of the facility indicated in this notification form; the DEP air permit number(s) are:
[_ X ¹_]	No DEP air permits currently exist for the operation of the facility indicated in this notification form.
Responsible Of	ficial Certification
notification in this notif units and a	signed, am the responsible official, as defined in Part II of this form, of the facility addressed in this I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made ication are true, accurate and complete. Further, I agree to operate and maintain the air pollutant emissions ir pollution control equipment described above so as to comply with all terms and conditions of this general et forth in Part II of this notification form.
	olly notify the Department of any changes to the information contained in this notification.
Emmanuel	<u></u>
Print name	of responsible official 2.9.11
Signature	Date

DEP Form No. 62-213.900(3)

Effective: 2/24/99

¹³

¹ There is an existing permit for facility number: 0310379-003 that will remain in effect until completion of the new facility at which time this permit will be surrendered/extended unless otherwise instructed.

-Dibble, Dickson

From: Sent: Cuthbertson, Jamie [jamie.m.cuthbertson@medtronic.com]

Wednesday, February 09, 2011 2:39 PM

To:

Dibble, Dickson

Cc:

Steve Plante: Hickson, Tiffany; Dujarric, Emmanuel

Subject: Attachments: AIR GENERAL PERMIT MEDTRONIC0001 pdf - Adobe Acrobat Professional AIR GENERAL PERMIT MEDTRONIC0001 doc; AIR GENERAL PERMIT

MEDTRONIC0001.pdf

Importance:

High

Dear Mr. Dibble:

Attached please find the revised Form No. 62-213.900(3) Effective: 2/24/99 as requested. I have attached both a PDF and a Word Document. Please let me know if you need anything else. Regards,

Jamie Cuthbertson

Jamie Cuthbertson

Sr. Facility Space planner/Project Manager | Medtronic Surgical Technologies

6743 Southpoint Dr. North I Jacksonville, FL 32216

Office: 904-279-3230 Cell: 904-400-3899

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RECEIVED

19 January 2011

JAN 25 2011

Mr. Richard Dibble General Permits Section Bureau of Air Monitoring and Mobile Sources, MS 5510 Department of Environment Protection 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Bureau of Air Monitoring & Mobile Sources

Dear Mr. Dibble,

As per your instructions enclosed is the completed DEP Form No. 62-213.900(3) for your and the departments review and approval. This is the Air Permit Application for the MEDTRONIC, Inc. (MEDTRONIC) new 100% Ethylene Oxide Sterilization (ETO) facility which will be located at 6743 Southpoint Drive, North, Jacksonville, Florida 32216, Duval County. The new facility will be attached to the existing distribution warehouse.

MEDTRONIC currently operates a similar permitted sterilization facility at the same address. The facility Number is 0310379-003 using OXYFUME 2000 gas mixture. This mixture will be no longer produced by the end of 2012 and obsolete by the end of 2015. This facility uses one four (4) pallet sterilizer with a reclaiming system.

Once the new facility is commissioned, validated and all stack testing completed MEDTRONIC will inform the State of Florida that the existing facility is shut down and request that the existing permit be extended to cover the new facility. The current facility will be replaced by the new "State of the Art" 100% ETO sterilization facility.

The new sterilization facility will operate using one (1) four (4) pallet and one (1) two (2) pallet new sterilizers. In addition the facility will use one (1) small aeration room. The sterilizer vacuum pumps and the aeration room exhausts will be connected to a Catalytic Oxidizer to treat the ETO emissions from the sterilization process.

This information and documents enclosed (please see index) are required by the State of Florida to obtain a permit to operate the MEDTRONIC "State of the Art" Sterilization facility.

This facility will support the MEDTRONIC medical device manufacturing and packaging facilities.

Wrong Form

ETHYLENE OXIDE STERILIZERS AIR GENERAL PERMIT NOTIFICATION FORM

Part III. Notification of Intent to Use General Permit

Prior to filling out this form, please read the instructions provided at the end of the form. Send completed form to the address listed in the instructions and keep a copy of the form for your files.

1, 11

F	Facility Owner/Company Name (Name	e of corporation, agency,	or individual owner):	
-	edtronic Inc. Site Name (For example, plant name or	number):		
2. M e	edtronic Inc. EtO Sterilization	Facility		
3.`	Hazardous Waste Generator Identificat	ion Number: 031037	9-003	
41	Facility Location: (11 PLIIII)			
	Street Address: 6743 Southpoint	Drive, North		
•	City: Jacksonville	County: Duval	Zip Code: 32216	
11	n worth		•	
5.	Facility Identification Number (DEP U	se ONLY - do not fill in	:	
11	ng ternj.			
in	मन्त्रह वाप			
Res	sponsible Official must same			
6 .	Name and Title of Responsible Officia	l:		
	Name: Emmanuel Dujarric	Title: Sr. Dire	ctor Operations	
7.1	Responsible Official Mailing Address:			
	Organization/Firm: Medtronic Inc	_		
11	Street Address: 6743 Southpoint			
	City: Jacksonville	County: Duval	Zip Code: 32216	
St	Cosse to a		Zip code. SZZZ	
	Responsible Official Telephone Number		21p Code. 3222	
8 _t .	Cosse to a	er:	(904) 332-8321	
	Responsible Official Telephone Number	er:		
8t.	Responsible Official Telephone Number (904) 332-8556	er: Fax:		
Si.	Responsible Official Telephone Number	Fax:	(904) 332-8321	
St. U.a Fäc	Responsible Official Telephone Number (904) 332-8556	Fax:	(904) 332-8321	
Fäc 9.	Responsible Official Telephone Number (904) 332-8556 cility Contact (If different from Responsible Officer Flame and Title of Facility Contact (Forficer Flame Hickson, EHS Officer Flame And Title O	Fax:	(904) 332-8321	
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Fice 9. Tiff 10. pe store 11. cc. me ev Ni	Responsible Official Telephone Number Telephone: (904) 332-8556 cility Contact (If different from Responsible Officer Facility Contact (Forfany Hickson, EHS Officer Facility Contact Address: Street Address: 6743 Southpoint City: Jacksonville Facility Contact Telephone Number: Telephone: (904) 296-9600 (100) (Prive, North County: Duval	(904) 332-8321 Discrete Signal Code: 32216	

Facility Name and Location

Facility Information

1.	Ethylene	oxide	sterilization	unit	description.
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(a) How many ethylene oxide sterilization units do you have on-site?	[_2_]
(w) 110 if intanty conditions of the conditions are great and the conditions are great are great and the conditions are great and great are great and great are g	

For each unit on-site, please provide the following information:

Ĭ,	Vent Type	Date Initially Purchased From Manufacturer	Status	Control Device Required	Date Control Installed (if same as purchase date, write "SAME")
TIFC	SC	October 2010	New	Yes	SAME
Fc Tc Ol	sc	. 10,950 October ₂ 2010	New	Yes	SAME
1(AR	October 2010	New	Yes	SAME

$O_{\mathbb{I}}$	SC	October 2010	New	Yes	SAME
1(AR	October 2010	New	Yes	SAME
*VE	NT TYPE KEY:	SC = Sterilization	Chamber CE =	Chamber Exhaust	AR = Aeration Room
	(b) Control de	evices are required, but	not yet installed [Y	/ES	
2.	(a) What was	the total amount of eth	ylene oxide purchased i	in the latest 12 months?	? [_ 0 _] tons
w	• •	n 12 months, how many i (i) to 1 (i) y it is less than 12 mont (if 12 (i)	ths: New owner: [] New facility: [_ records: []	_ X)
	What control teching (Indicate with an	nology is required for s "X".) பரிபாற	terilization units pursua	ant to this general perm	it?
ar. fu	Acid-water s	crubber traffiple 8 /93 /1	Other	[]	
	Catalytic oxi	dation unit [X]	None required	<u> </u>	
Вє	Thermal oxid	dation unit []			
4. Ec	quipment Monitor	ring and Recordkeeping	g Information		
Chec	k all logs which	are required to be kept	on-site in accordance w	with the requirements of	f this general permit:
		for ethylene oxide purc		_ X _]	
(b) т	emperature moni	toring for oxidizer unit	S	_ X _]	
	iquor tank level r			[_ N/A _]	
(g) C	Concentrations of	ethylene glycol in scrul	bber systems	[_N/A _]	
(e) E	xhaust concentra	tions of ethylene oxide		[_ N/A _]	
(f) F	erformance testir	^{ig} jjarric		_ X	
	nstrument calibra	11		_ X	
5. Su	rrender of Existin	ng DEP Air Permit(s)			
		n "X" the appropriate s	election:		
Ét		eby surrender all existinication form; the DEP a			e facility indicated in thi

Re	sponsible Official Certification	
	I, the undersigned, am the responsible official, as define this notification. I hereby certify, based on information statements made in this notification are true, accurate a maintain the air pollutant emissions units and air polluta comply with all terms and conditions of this general per	and belief formed after reasonable inquiry, that the nd complete. Further, I agree to operate and ion control equipment described above so as to mit as set forth in Part II of this notification form.
le .	Emmanuel Dotario lin Print name of responsible official Out 184 184 184 184 184 184 184 184 184 184	the information contained in this notification.
M	nec	1.24.11
M	Signature ilization	Date
3	chloaite a	
4	uilipoint	
5	ter (ÖCF)	
	** * *	
Re O.	nete (2/10-12 Loughann and	
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Section 1	Office Control	
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ΙĪ	· Namb o · 16-9600 (

No DEP air permits currently exist for the operation of the facility indicated in this notification form.

__X¹__

There is an existing permit for facility number: 0310379-003 that will remain in effect until completion of the new facility at which time this permit will be surrendered/extended unless otherwise instructed.

I. Introduction:

The facility will house a total of two (2) sterilizers. The daily usage of 100% ETO will be 30 pounds/day.

Running at full capacity with two (2) sterilizers 365 days per year MEDTRONIC will use a total 10,950 pounds of ETO per year.

The new sterilizer vacuum pumps exhaust and the aeration room will be evacuated into a Catalytic Oxidizer System (Oxidizer) manufactured by LESNI A/S of Denmark.

The ETO removal efficiency of the LESNI A/S Oxidizer is 99.9%.

The ETO oxidizer operating temperature will be monitored and recorded in order to assure proper operating parameters and the specified destruction and removal of ETO from the sterilization process exhaust stream. The system temperature monitoring devices will be calibrated using NIST traceable standards.

The Oxidizer is heated with natural gas.

The emissions from the sterilizers and aeration room will vent through one (1) single stack.

Steam is used in the process to provide heat and humidity in order to enhance product sterilization. The steam will be delivered by the two (2) 30 Hp boilers. Natural gas will be used to heat the boilers.

II. Process Description:

The process will be typical for ETO sterilization at other industrial sterilization facilities. Sterilization is carried out as a batch process, consisting generally of a steam conditioning period and introduction of steam, introduction of ETO, introduction of Nitrogen, followed by a sterilization period, then evacuation of the sterilization chamber, Nitrogen, and Air washing to remove residuals. Upon loading the product into the sterilization chamber, the chamber is sealed and the air is evacuated. Steam, ETO and Nitrogen are added resulting in a concentrations of 200 -600 mg/l. The sterilization process exposure will last up to a maximum of 2 - 15 hours. After the sterilization process the ETO/ Nitrogen mixture is evacuated from the sterilizer by the vacuum pumps system and pumped into the Oxidizer. Nitrogen and Air are then allowed to enter the sterilizer bringing the chamber to atmospheric pressure. The chamber is always evacuated through the Oxidizer. Multiple evacuations will occur in order to remove product residuals prior to opening of the sterilizer door. The sterilizers will not be operate if the Oxidizer is not is not on line.

III. Facility Emissions:

Maximum annual usage of ETO at this facility will be 10,950 pounds per year.

The following are the calculations of ETO emissions from the facility

Following the Oxidizer:

Total Annual ETO Usage: 10,950 pounds worst case.

Operating Days per Year = 365

```
10,950 pounds X 1 Year X 1 Day X 0.999 X 0.001
```

10.93905

```
365 X 24 8,760
```

= 0.00124875 Pounds per hour at the premises.

= 0.02997 Pounds per day at the premises.

= 0.00547 Tons per year at the premises.

Where: 0.999 = fraction of ETO vented to the scrubber.

 $0.001 = \text{fraction}_{10} \text{ of } \text{ETQ}$ not removed by the scrubber operating at 99.9% efficiency.

Please review the above information as soon as possible and let us know if the permit application is correct and complete. Please call me if you have any questions or require further information at 518 793 7077 Ext. 21 or 518 796 3821 (cell).

Best Regards, and app 100% by 100% by 100% by

W.M. Serenses

Roman M. Stienss 310379 (

Sterile Technologies, Inche end (1)

P. O. Box 4742

Queensbury, New York 12804 1

CC: Mr. Emmanuel Dujarrich Construction Sr. Director Operations Medtronic, Inc.

6743 Southpoint Dr. North St Jacksonville, FL 32216

Enclosure: DEP Form No. 62-213.900(3) Effective: 2/24/99

Lesni Sales Brochure & Medtronic Inc. Unit Specification

Fulton Boiler Specification Facility Layout (footprint)

TI THE MLD



CESNI A/S
Kotnmarken 7
7190 Billund
Denmark
Tel.: +45 75 33 25 00
Fax: +45 75 35 30 06
info@lesni.com

www.iesni.com

Sales Office, UK and freland: +447768 033 458 sales@lesnj.co.uk

Sales Office, France and Belgium: +33 609 423 308 sales@lespi.fr

General Description

The LESNI Catalytic abator systems are installed to purify exhaust air from production facilities or processes contaminated with organic compounds, which does not contain any components that can poison the catalyst.

The organic pollutants are converted into CO₂ and H₂O on condition that all pollutants are compounds containing only carbon, hydrogen, nitrogen and oxygen.

The plant performs well within limit legislations such as 1,8 mg/Nm³ (1 ppm), 1,0 mg/Nm³ and also 0,5 mg/Nm³ (TA-Luft).

Ethylene oxide abatement in medical devices sterilization

The LESNI A/S catalytic abator two step system has been specifically developed to eliminate the need for using chemicals (sulphuric acid) and to stop the generation of waste (glycol) while offering a total solution for cleaning all fugitive emissions from the degassing and aeration of sterilized product, as well as the high concentrated vent exhaust from the vacuum pumps containing EO (Ethylene Oxide).







The first step is the EO Balancer, where water is circulated from a buffer tank over a column, to generally equalize the variation in the incoming concentration of EO; such that when levels of incoming EO are high, the system absorbs EO in the water and when levels of incoming gas are low the system strips EO out from the water.

The second step is a catalytic abatement where the equalized concentration of EO is converted (catalytically oxidised) into CO_2 and H_2O .

The process air coming from the balancer is preheated first from a heat recovering air to air pre heater and then the temperature just before the catalytic bed is raised to the needed controlled temperature for the catalyst to complete the conversion of the EO over a gas fired heater (electric or steam also could be used).

The extract fan installed after the catalytic abator; provide necessary suction for extracting the process air through the system; thus keeping the complete plant operation under negative pressure.

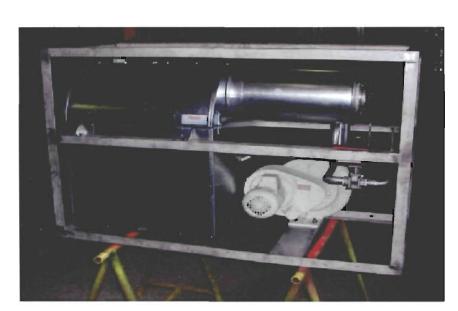


The plant is controlled by a control system from which all operating, supervising and controlling of the plant are performed. The control panel shall be installed in a suitable place near to the operating technician or allow some functions to be remotely controlled.

In the control panel are all the needed terminals for connection to the balancer, catalytic abator and any other external communication.







Ethylene oxide abator (EO Disposer) for hospital sterilizers

LESNI has also developed a special version of the standard catalytic abator for decomposing of EO (Ethylene Oxide) from small (hospital type) sterilizer / aerator, in which the EO is converted into H₂O and CO₂.

The process air coming from the sterilizer is injected (pressurised) to the catalytic abator after the fan and just before the catalytic bed the temperature of the exhaust is raised to the needed controlled temperature over an electrically powered heater.

The LESNI catalytic abator has a damper system that switches the plant to emergency bypass at any unacceptable pressures or temperatures monitored in the plant.



The plant is controlled by a control system from which all operating, supervising and controlling functions of the plant are performed. The control panel shall be installed in an unclassified area related to the operating personal. In the control panel are the needed terminals for connection signals from the catalytic abator for external communication.

The LESNI system will be designed to obtain the purification required by the authorities with the highest degree of security and efficiency.

Functions

The LESNI A/S catalytic abator plants for conversion of ETO are always supervised and operated from the control panel. All switches, instruments and indicators are situated on the panel and are also indicating the actual running mode.

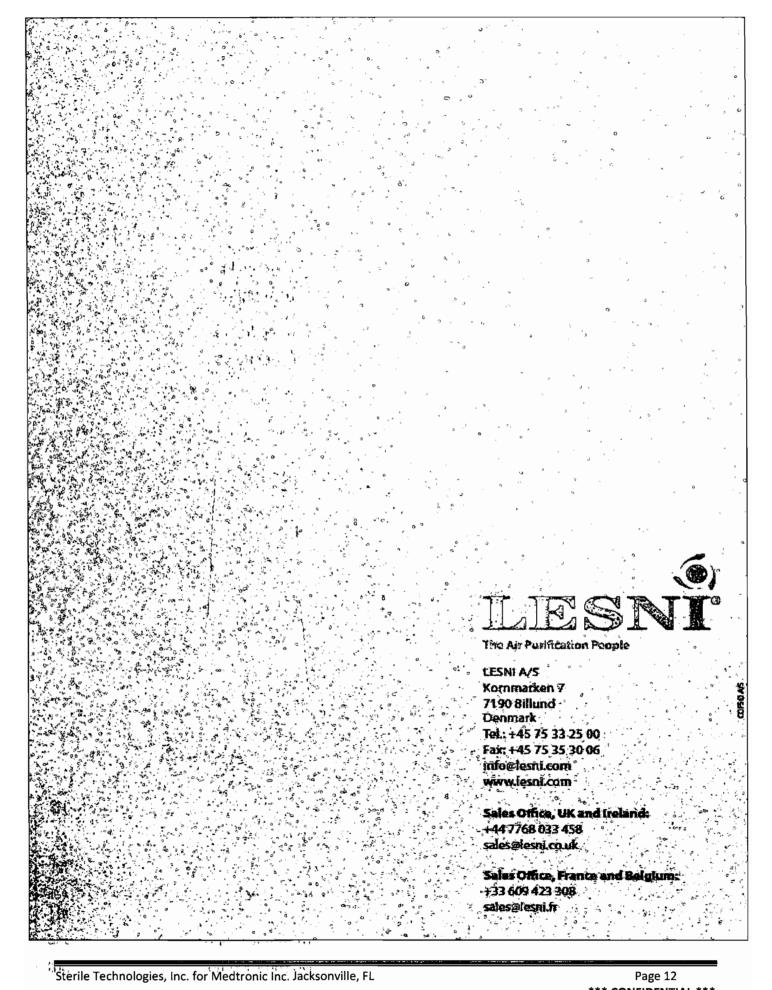


The needed extract for maintaining the airflow through the Catalytic Abator Plant for conversion of ETO is supplied from a fan on the inlet duct to the abator.

ETO loaded gas from vacuum pump is lead to the catalytic abator over an injector injecting after the main fan. The needed supplementary air is taken from a separate duct on the fan inlet. The diluting air can be connected to the degassing area.

П

after the c



Medtronic Inc. Catalytic Oxidizer & Balancer Specification

The and Scenario: One - two pa	ു പ്രാസംഗ്യാം പട്ട of the plant allet chamber and one four pallet chamber. The two pallet will use 10 pounds of EtC ന പ്രവരിട്ട് നെന്നു
The Jiper cycle and the four p	ੱਧਰ ਹਿਲਗੇਉਸਦਰ (ਸ pallet wilkuse 20 pounds per cycle. Each cycle will be 15 hours with in chamber
E or	
The operation. This will give pari	ic abutor plant: 30:pounds/perleach 15 hour period for current demand. calling the actu
Charabana will man 1 4	in a sale man day are a day and a sale and Giffer to a sale and a sale and a

Chambers will run 1 time each per day, seven days per week, and fifty two weeks per year. An aeration

room sized at 200 cubic feet will be added to the design with a minimum of 7 air changes per hour. The

aeration room will only be used occasionally, not more than 4 cycles per week.

The maintaining in of E na fan **on** the in

For this scenario we will deliver 1 Catalytic Abator for ethylene oxide with airflow of app. 300 Scfm ,
app.510 Nm^3/h , complete according to the enclosed flow sheet no. 07102-001 and the data and
specifications mentioned below.
The package is designed to cope with full loading of EtO, while treating also all exhaust vents from the hor
box cells with balance air from the sterilizer rooms. The overall plant performance is subject to emission
standards demanding less than 1 ppm or less than 1.8 mg/Nm³ from the abatement plant exhaust.
The package includes delivery of complete balancer and Catalytic Abator plant, capable of handling and
purifying ethylene oxide toxic emission from the degassing chambers and the sterilizer rooms, in addition
to the concentrated vents from vacuum pumps.

	Gener	al Data / Specification	
Äirflow St	Nm³/h	Eton / sterilizer	
2 sterilizers	1x4 pallet & 1x2 pallet saller will use 30 p.	Eton / day	app. 30 lb.
ลอ Number of cycles	2 per 24 hours	Concentration of Eton to Catalytic Abator	max. 4 g/Nm ³
Temperature	app. 104°F or 40°C	Operating temperature	app. 302 °F or 150 °C
Operation	7 days /week; 24 h/d	Purification	less than 1ppm or 1,8 mg/Nm ³
Pollutants	Ethylene Oxide (Eton)		

Power / Utility Data

Electrical	zih delivar 1 Cat- app. 20 kW	natural gas consumption	app. 35.32 - 70.63 cu ft./hr.
consumption	deteraccooling t		
Electricity	3x 480 V; 60 Hz		

Approximate Dimensions (Abator& Balancer)

Length	6.1 m diorage with bill	Width	2.0 m
Height	3.5 m ar from the stead	Weight	5 tons(including water)

The combined SIT purification system offered is based on our proven and developed "state of the art

solution "which we have successfully supplied over the last 20 years to many Eton sterilizing companies.

These plants perform well within limitilegislations; for this plant we shall guarantee 1 ppm or 1.8

mg/Nm³, while operating safely, efficiently and with high reliability.

The p	urification system is designed to handle and purify ethylene oxide toxic emissions from all of the
follov	ving areas:
•	The hot box cells
	Vacuum pump vent lines
	Sterilizer rooms
12	4 p. 11 (62 p.d)
N N	$R(T) = C + T + T \alpha$
T	private distriction
(),	Sugar page , 14 to
!	

Note: 1. From the safety point of view, we insist that vacuum pumps are stopped when our plant E goes into bypass, so that Eton levels do not escalate in the balancer. If you are allowed to 60 discharge Eton directly to the atmosphere, then actuated diverting bypass valves should 640 V, 08 Hz be installed by you to discharge vacuum pumps into another bypass stack. Au nuclous 2. We draw your attention to the fact that ONLY the balancer will be suitable for zone 1 Ta. 116 classification, whereas only the sump with liquid could only be considered zone 0. 11 It allow system off 3. The Catalytic Abator is NOT classified, and statuary rules will apply in the layout and e mecessarily sun-50 positioning of all components. 11 well confirm that to,

SPECIFICATIONS:

11		ers distay, added to
_{1,} 1,)	1 piece	Compact tower packed absorber type LKV, with integral column and sump tank made of
		AISI 304, complete with one circulating pump, instruments and fittings etc.
		The following built-in parts are included in the absorption column:
		• 2 maintenance nozzles for inspection
1.1)		Tower packing supporting plate ,
		Mass transfer zone
		Scrubbing liquid distributor
		Large surface droplet and mist eliminator
1.2)	1 piece	Large 2 m ³ sump tank complete with:

		Solenoid valve for fresh water
,		Up to 2 individual connections for the vacuum pump vent exhaust from the
1		sterilizers. The provision by SIT includes nozzles, complete with diffusers.
		Level indicator with adjustable measuring contacts and control
		Extra redundant level switch for low level
		• 'Overflow and drain nozzle
		Screen for level transmitter Order Or
1.3)	1 piece	Centrifugal pump incl. motor 3 x 480 V, 60 Hz, IP 55.
1.4)	1 piece	The pump suction and pressure lines are complete with: the value of a surp. • Hand valves
		aivt at ,a te ⁵ • Pressure indicator

_		
		Flow switch
<u> </u>		Temperature indicator
l.		Pressure switch
		ા tા ા હલી તા ● Other nozzles, fittings, and valves
		Extract fan, complete with EExd motor and V-belt drive. The fan should provide and
	1 piece	maintain low suction pressure at the inlet to the abatement plant around 1" water gauge.
2)		The fan will also be acoustically enclosed to keep the noise level below 85 dB (A) ata
		distance of 1 m.
	1 piece	Mac and the sour Infra-red LEL gas detector "Dräger-Polytron" for measuring the concentration before the
3)		catalytic oxidizer.
4)	1 piece	Low concentration gas detector type Dräger-Polytron / Electrochemical type sensor"

		installed after the Abator offering a continuous 4 to 20 signal.
5)	Air to air heat exchanger for pre-heating of the inlet air: 1 piece Heat recovery app. 65%	Air to air heat exchanger for pre-heating of the inlet air:
5)		Heat recovery app. 65%.

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6)	1 piece	Electric heater complete with thyristor and regulators
6)	1 piece	Gas burner (natural gas), complete with gas train arrangement, valves and regulators.
		Abator, complete with catalyst for low temperature operation.
		Pro a which
		For the catalyst we guarantee a working time of 16,000 hours or max. 2 years.
7)	1 piece	Och nordes, u.,
		We draw your attention to the fact that gases containing silicone or phosphors can poison
		fair and intervell
		the catalyst.
		70.10 Sc 301311 C
8)		All interconnecting pipes, ducts, fittings, and instruments for the plant.
		1 mili lea I o acmia
9)		Insulation material for the plant, 50-150 mm thick in places with cladding.
		6, 11, 11
10)		Bypass diverting actuated valves for emergency. $(CL) = \underbrace{g(r-t) \cdot c(r)}_{CL}$
11)	1 piece	Special receiver tank to collect overflow from the balancer installed at a higher level

		allowing natural draining back to the sump of the balancer. Condensate from vacuum
		pumps (if water seal type) can also be pumped to this over flow tank. The overflow tank
		(approx. 100 lit.) will also have an actuated valve, which will be operated by the sump
		level switch.
12)	1 piece	Compressed air buffer tank to provide necessary compressed air supply to the plant in
	1 piece	emergency.
		Control and switch cabinet for operating and control of the plant, complete with
		adjustment for the electric heater with Allen Bradley or equal PLC system:
13)		The control panel will generally comprise one switch panel containing motor
		starters and all necessary hard-wired signals, and PLC for operating and control of
		the plant. All hard-wired signals will also be indirectly linked to the PLC in the

	panel.
	The PLC will be supplied with compact operator touch panel, which will be free, in a plant.
	issued for installation in the control room or on the main panel.
	Customer will complete the wiring and all necessary communication between the
	plant skid and main switch panel.
	Customer will complete wiring between the operator panel and the switch panel
	through an Ethernet bus.
	• Customer will wire any additional signals and alarms to Customer own operating
4	án'd' con'trol s'ýstèm.
٠.	Critical alarms will be available on terminals and are "fail-safe" hard-wired signals.
٠,١	These signals are required to stop vacuum pumps and divert flow to emergency

	exhaust, while exhaust fan continues running. These signals are part of the safety
	of the total system. g na _{rra} લો - ahnng
	The necessary junction boxes for all digital and analogue signals will also be supplied and
14)	installed at the plant skid. Wiring from all instruments, motors, etc. to these junction
	boxes will be completed by SIT.
15)	Stack approx. 8 m, so that the point of exhaust is 2 m above roof level. Two monitoring
	points are included, and the analyser should be accessible from the supporting platform.
16)	Steel supporting structure, complete with access platforms and stepladders with
	supporting brackets for all air ducts within the scope of supply and the stack.
17)	Project progress review meetings on site and in our offices to cover various aspects of the
!	

	project. We anticipate scheduling about two meetings.
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Delivery ex works excluding freight, custom duties, and taxes (as unknown). 20) Submission of risk analysis study for the plant. 21) Customer must ensure permitted access to site for trucks and cranes. FAT and SAT, including IQ, OQ, and PQ of SIT plant without software validation to be agreed 22) 26 Customer for running in the plant and commissioning and decoding a great of the plant and commissioning and decoding a great of the plant and commissioning and decoding a great of the plant and commissioning and decoding a great of the plant and commissioning and decoding a great of the plant and commission of t	18)	Mechanical and electrical erection of the plant (within skid area only) by SIT team of fitters.
20) Submission of risk analysis study for the plant. 21) Customer must ensure permitted access to site for trucks and cranes. FAT and SAT, including IQ, OQ, and PQ of SIT plant without software validation to be agreed 22) 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	19)	
22) Customer must ensure permitted access to site for trucks and cranes. FAT and SAT, including IQ, OQ, and PQ of SIT plant without software validation to be agreed All transmission between the one. Service engineer for running in the plant and commissioning and are mebrical and the second properties of the following checks and tests: 130 130 130 130 130 130 130 13	20)	
FAT and SAT, including IQ, OQ, and PQ of SIT plant without software validation to be agreed 22) 23) FAT and SAT, including IQ, OQ, and PQ of SIT plant without software validation to be agreed 24) 25 Service engineer for running in the plant and commissioning and 26 To produce the service of the plant service of the plant 26 Delivery test including physical inspection of the plant	21)	Customer must ensure permitted access to site for trucks and cranes.
Service engineer for running in the plant and commissioning and	22)	FAT and SAT, including IQ, OQ, and PQ of SIT plant without software validation to be agreed 740 (2000) on.
Process indicators and controls	23)	Service engineer for running in the plant and commissioning and are meloded, and the setting up for operation generally covering the following checks and tests: (porting are turn) • Delivery test including physical inspection of the plant anguard, regard.

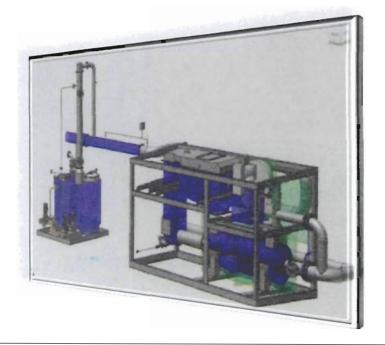
Sterile Technologies, Inc. for Medtronic Inc. Jacksonville, FL

	• Alarms
	• Timers Weight Grade Sch
	• Interlocks
	Safety valves and functions
	Input and output signals
	Test of all measuring instruments
55 55	Mechanical and electrical functions of all equipment
	Training of operators and engineers

	Complete detailed engineering and delivery of documentation for the control and
	maintenance, in English language, consisting of the following sections:
1	• General description
14 ₁	Operating manual domediated analyst
24)	Maintenance and adjustment The participation per
	Maintenance program and check list UbA' no adm, 1Q
ž.	Commissioning Item list and components documentation
	• Drawings, a tumi
v	• Safety instructions

Denvery test in to

- CE certificate
- Alarm list



REFERENCES:

•	եւ n լու այ գոյվում B. Braun, France und Vietnam
•	Isotron, Ireland and Malaysia
	Congress of Control of
•	Mallinckrodt, Ireland Operating teamed
•	Abbott Labs, Ireland
•	Manatemen prog Unomedical, Denmark
	ort gränoteemano.
•	Life Net, US Drawings
•	Becton Dickinson, France and tons

EXCLUSIONS:

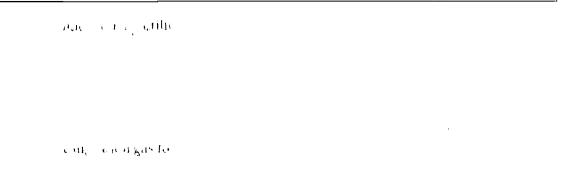
	Charage are
•	Foundation and civil works.
	At an He
•	Packaging and delivery to site.
	i
•	Custom duties and local taxes.
•	Cranes and lifting equipment on site for positioning and assembly.
•	Silencer in the stack, if necessary.
•	Electrical cables and wiring between skid and main switch panel and through to operator panel

•	Supply and connection of utilities and other services, including compressed air, natural gas
ħ	electricity, and calibration gas for analysers and Ethernet connections, if needed.
<u>DELIVI</u>	ery time:
•	Delivery ex works – 6 months from final order.
•	Installation and setting up – 3 weeks from delivery to site.
•	Final hand-over of plant and documentation, not later than 3 weeks from installation.
•	Time of delivery with reservations against conditions we do not control.

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Medtronic Inc. 30 HP Steam Boiler System & Accessories² 09-2010



We are pleased to quote the following: 30 HP Gas Fired, Dual Steam Boiler System that includes $\xi_{\rm c}$

the following four optional items 1) Timer Based Auto Bottom Blow Down, 2) Conductivity

Based Surface Blow Down, 3) Barometric Damper, & 4) Stainless Steel Jacket

in the second of the second of

Quantity	. at	Type	Steam
Model	ICX-30	Output	

, प्रणात्मा ए, स्वापिता

² The cost of this 15 hp gas fired boiler system is included in the proposal

Capacity			(ВНР)	30
(Lbsteam/hr.)	1035		(kilowatts)	300
(Kg-steam/hr.)	470			
			Design Pressure	
			(lb./in2)	
Fuel Type	Natural Gas			
			(kg/cm2)	150
Control Voltage	110/60/1			
			(bar)	10.55
Burner Voltage	220 - 460/60/3 3			
				10.34
		V.		

³ Medtronic to confirm voltage

Blow down valves for water column
Water gauge glass protector
Steam safety valve
Water Stop Valve
Water check valve (spring type)
Blow down valve (Y-type)
Stack adapter with gasket
Steam pressure gauge assembly with
nspection cocks
St A

Return System:

Includes the Optional Self-Actuated Steam Pre-Heat Kit & Optional 304 Stainless Steel Tank Material

Quantity	. 1	Pump voltage	220 - 460/60/3
Model (HTL-60	Capacity	
Туре	Horizontal	(Gallons)	46
# of pumps	24	(Liters)	175
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Standard Components		Standard Trim
B .0 ,0, 0 \$	й. Н	•
Tank has ¼" steel with 3/16 heads	i.	Float valve assembly with ball & rod

Sterile Technologies, Inc. for Medtronic Inc. Jacksonville, FL

⁴ Pumps sized for 15 BHP, Low Pressure

Welded stand	Water sight glass and valve assembly
Sy. 1 Pump and motor assembled and piped	NEMAN 1, 3 ph panel with motor starters, H.O.A. CCT &
C g lawar assembled	lights
Strainer and shut off valve piped in line	Grundfos Pump

Blow-Down Separator

Includes the Optional Self-Actuated Cooling Kit

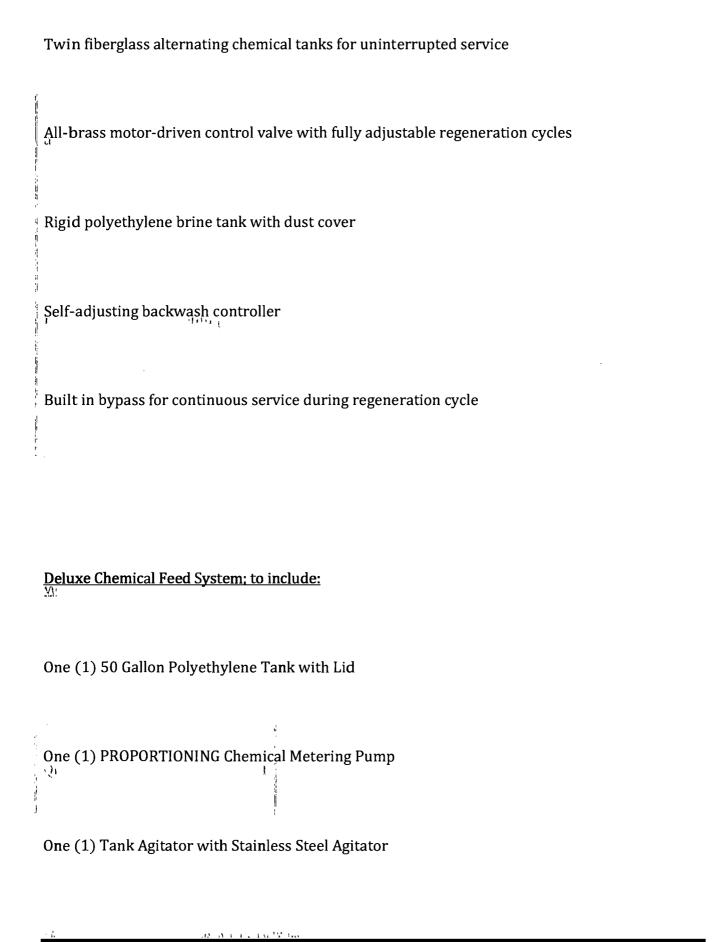
To ever a quadre type	
Quantity: 1	Model: F-30
Meets or exceeds ASME code Blancols	Compact size and easy to install
Low maintenance	Durable heavy gauge steel construction
Baffle plate design to absorb steam flash to the K Safety Valve	3x4 Hand hole for clean-out and

and pressure		inspection	
K .		Cold water inlet	
Large steam vent opening	gend har va	Bottom drain opening for sludge re	emoval
Ó			
Por Citte	50	<u></u>	
Water softener ⁵ Hu poo	ital		
 	9 2 1 1 2 2 4 5		
Quantity	1 Mod	del	FB-300-900
Si	1 11		
Medtronic to test the water supply for	quality, hardness, &	minerals and provide these results to Sterile Tec	chnologies, Inc. to
assure that manufacturer is aware of o	perating conditions a	nd that boiler is set up according to operating co	nditions.

Voltage	110/60/1		Make up water design pressure range:	
Min capacity			(psig)	125
(grains)	40,000 ibha ana piw	:1	(kg/cm2)	8.8
(ppm)			(bar)	8.6
Max capacity	ilve _l apereneli	t _f		
<u>ស</u> (grains)	¹ 60,000		Salt storage	
li'(ppm)	f Sell get jede	\$ 4. k	(pounds)	320
Qı			(kilograms)	145

M , 4t "cda

Standard Features



One (1) Water Meter	1 (0/60/1 h		
	40,e00		
	10 mm		
la l	Marie de Marie de Carlos d		
	C42 +OO		
	The state of the s		·
	1 to		
System Capacity	50 Gal	ons Pump Rated Pressure	215 PSI
Pump Capacity	0.5	PH Pump/Agitator Voltage	110/60/1

Sterile Technologies, Inc. for Medtronic Inc. Jacksonville, FL

Page 44



DO DUTTO DE SET

Skid Mounting of Two (2), ICX-30, One (1), HTL-60 Duplex, One (1), F-30 Blow-Down Separator,

One (1), FB-600-900 Water Softener, and One (1), Chemical Feed System on a Structural Steel

Skid, All Piped and Wired with Single Source Power (includes fused disconnect), Single Source

The beauty

Water, Single Source Steam and Single Source Drain

Ut STANGER REPRESENTED

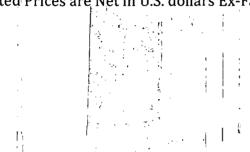
<u>Medtronic to test</u>	the water si	upply for quality, hardness, & minerals and provide these results to
Sterile Technolog	ies, Inc. to as	ssure, that vendors are aware of operating conditions.
()1		
<u>Lead/Lag Boiler C</u>	ontrol Syste	em to include:
ModSync lead/lag	control	
Yokogawa pressu	re control fo	or steam pressure signal transmission
Alarm signal relay	(flame fail	ure, low water, hi/lo gas pressure)
Alarm & lights on	boiler pane	I
,		
# S.	-	· '{{ ₁ , * ₁ ,

Boiler Room must be under neutral or slightly positive pressure. Adequate combustion air for

proper boiler operation is required.



All Quoted Prices are Net in U.S. dollars Ex-Factory Pulaski, NY.



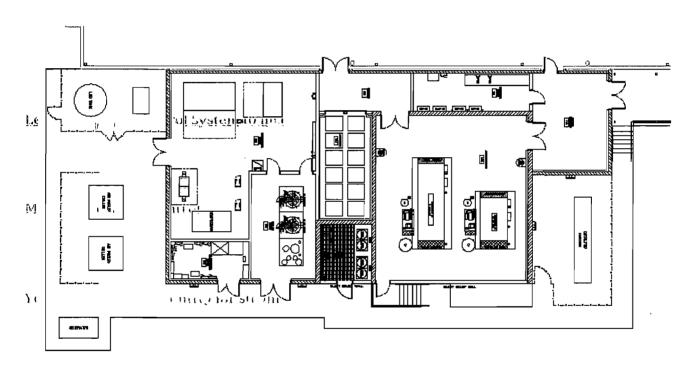
Pricing Validity - 30 days.

Standard Factory Delivery Schedule: Approximately 8 – 12 weeks after receipt of purchase

order. Actual delivery schedule may vary.

Medtronic Inc. Facility Drawing (footprint)

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