

**APPENDIX A**

Alternative Medical Waste Disposal Technologies  
Authorized in New Jersey

<b>PERMIT/CERTIFICATE</b>
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## State of New Jersey

### Department of Environmental Protection

Environmental Regulation  
Division of Air Quality  
Air Quality Permitting Element  
Mail Code 401-02  
P.O. Box 420  
Trenton, NJ 08625-0420

# Certificate to Operate Control Apparatus and/or Equipment

**Facility ID:** 19083

**Facility Name:** STERICYCLE KEASBEY AUTOCLAVE FACILITY

**Mailing Address:**

369 PARK EAST DR  
WOONSOCKET , RI 02895

**Plant Location:**

75 CROWS MILL RD  
Keasbey , NJ 08832

**County:**

Middlesex

**Location Description:**

**Permit ID:** PCP 140001

**Permit Type:** Construction of New Source

**Status:** Renewed

**Status Date:** 09/19/2019

**Effective:** 09/25/2014

**Expiration:** 09/24/2024

**Designation of Equipment:** Autoclave 1

**Equipment Description:** Bondtech BTT  
8x32 Autoclave

**Designation of Equipment:** Autoclave 2

**Equipment Description:** Bondtech BTT  
8x32 Autoclave

**Designation of Equipment:** Autoclave 3

**Equipment Description:** Bondtech BTT  
8x32 Autoclave

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### Certificate to Operate Control Apparatus and/or Equipment

This five year certificate is being issued under the authority of Chapter 106, P.L. 1967 N.J.S.A.26:2C-9.2. The possession of this document does not relieve you from the obligation of complying with all provisions of the New Jersey Administrative Code, Title 7, Chapter 27.

In addition to the facility specific requirements listed in this permit, the facility must comply with all applicable rules and requirements as well as the information contained in the approved permit. The facility must also comply with any applicable requirements of the N.J.A.C. 7:27-8.1 et. Seq. and other state rules summarized in the General Provisions for Preconstruction Permits,

[www.state.nj.us/dep/aqpp/applying.html](http://www.state.nj.us/dep/aqpp/applying.html)

Pursuant to N.J.A.C. 7:27-8.13(b), the department may modify the conditions of approval of this certificate at the time of renewal or at any time when the certificate is in force, if deemed necessary to protect human health, welfare or the environment.

You may also be subject to fees for services that are performed by the Department in accordance with the conditions of approval of this permit and 7:27-8.13(e). If you fail to pay a fee, the Department may assess civil administrative penalties and/or revoke this certificate.

In accordance with N.J.S.A. 54:4-3.56 to 3.58, you may be entitled to an exemption from municipal property taxation if your control device is taxed and is considered to be an air pollution control device. A tax exemption application may be obtained at [www.state.nj.us/dep/aqpp/downloads/forms/TaxExemptionForm2.pdf](http://www.state.nj.us/dep/aqpp/downloads/forms/TaxExemptionForm2.pdf).

In accordance with N.J.A.C. 7:27-8.3(d), you shall make this certificate readily available for inspection on the operating premises.



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
SOLID & HAZARDOUS WASTE MANAGEMENT PROGRAM  
BUREAU OF LANDFILL AND HAZARDOUS WASTE PERMITTING  
P.O. Box 414 401 EAST STATE STREET

TRENTON, NEW JERSEY 08625-0414  
Telephone: (609) 984-6985 Telecopier: (609) 633-9839  
WWW.STATE.NJ.US/DEP/DSHW

CHRIS CHRISTIE  
*Governor*

KIM GUADAGNO  
*Lt. Governor*

BOB MARTIN  
*Commissioner*

Mr. Angel Aguiero  
Director of Regulatory Compliance  
Bondtech Corporation  
2400 North Highway 27  
Somerset, Kentucky 42503

JUL 16 2010

RE: Authorization of Alternative Technology for the Treatment and Destruction of Regulated Medical Waste (RMW), Pursuant to N.J.A.C. 7:26-3A.47, for the BONDTECH CORPORATION BONDTECH BTT 6.5x26 Autoclave System  
PI# 440007, Authorization ID RMA090001  
AT File #83

Dear Mr. Aguiero:

I am writing to you on behalf of the New Jersey Department of Environmental Protection (Department) in regard to the application submitted for the BONDTECH CORPORATION (BONDTECH) BTT 6.5x26 Autoclave System. The Department has reviewed the original supporting documents as well as the Alternative Technology Review Form (ATRF) resubmitted on January 22, 2007. I am pleased to inform you that, based on the review of all of the information submitted, the Department hereby authorizes the BTT 6.5x26 Autoclave System to be used for the treatment and destruction of Regulated Medical Waste (RMW) in New Jersey, subject to the conditions listed in this Authorization. A copy of this Authorization should be supplied to the facility planning to utilize this system at the time of the purchase of this system.

The New Jersey Department of Health and Senior Services (DHSS) issued its revised authorization for the BONDTECH CORPORATION BTT 6.5x26 Autoclave System on May 6, 2010 (copy enclosed). The DHSS authorization describes the components of a quality control protocol that will need to be established for successful monitoring of this Alternate Technology. All users of the approved BONDTECH BTT 6.5x26 Autoclave System in New Jersey must comply with both this Department's and DHSS's conditions and operating requirements.

Listed below are the Department's general operating requirements that shall apply to all operators of the BONDTECH BTT 6.5x26 AUTOCLAVE SYSTEM:

**Bondtech Corporation MODEL BTT 6.5x26 Autoclave System**  
**New Jersey Alternate Technology Authorization for RMW Treatment and Destruction**  
**Preferred ID# 440007      RMA090001**

1.     AIR POLLUTION CONTROL PERMIT

The Department's Air Quality Permitting Program reviewed the application for the BONDTECH BTT 6.5x26 AUTOCLAVE SYSTEM and determined that an "Air Pollution Control Permit to Construct, Install or Alter Control Apparatus or Equipment and Certificate to Operate Control Apparatus or Equipment" pursuant to N.J.A.C. 7:27-8.2 is required to operate the autoclave and post-sterilization grinder. Any facility that wishes to install and operate a BONDTECH BTT 6.5x26 AUTOCLAVE SYSTEM can apply for a "new" preconstruction permit and operating certificate through an internet-based electronic submission as listed at [www.state.nj.us/dep/aqpp](http://www.state.nj.us/dep/aqpp) in compliance with N.J.A.C. 7:27-8.4. The facility may contact the Bureau of Air Permits at (609) 633-0834 for further information.

2.     OPERATOR REGISTRATION

All sites operating the BONDTECH BTT 6.5x26 AUTOCLAVE SYSTEM approved herein in New Jersey, must register as a regulated medical waste Destination Facility with the Department pursuant to N.J.A.C. 7:26-3A.8 and be issued a Certificate of Authority to Operate (CAO) a Regulated Medical Waste Treatment and Destruction Facility pursuant to N.J.A.C. 7:26-3A.47(b)2. The CAOs are issued for a fixed term not to exceed five (5) years. Additionally, any facility in New Jersey using the BONDTECH BTT 6.5x26 AUTOCLAVE SYSTEM must comply with any existing and future site-specific local, county, other State of New Jersey or Federal requirements for authorizations, registrations and permits. If the operator wishes to continue operation of the system beyond the expiration date of the CAO, an application for the renewal of the CAO must be submitted to the Department at least 90 days prior to the expiration date of the existing CAO.

3.     GENERAL CONDITIONS

- a.     Facilities operating the BONDTECH BTT 6.5x26 AUTOCLAVE SYSTEM, approved herein in New Jersey, shall be required to adhere to the conditions detailed in any CAO issued to the operator for that site. These conditions may be detailed for the individual site using one of these approved systems.
- b.     Compliance with DHSS operating protocol and all applicable State and Federal regulations including the Occupational Safety and Health Administration's Occupational Exposure to Blood-borne Pathogens Rule (29 CFR Part 1910) and standards in the operation of this facility for the health and safety of employees and other persons having access to the facility shall be maintained.
- c.     Compliance with all of the equipment manufacturer's safety and personal protection recommendations and procedures including all revisions and modifications.
- d.     Compliance with all of the equipment manufacturer's installation and design, operational and maintenance procedures including all revisions and modifications.

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**Preferred ID# 440007      RMA090001**

4. ALLOWABLE WASTE IN FEEDSTOCK

Classes 1, 3, 4, 6 and 7 of Regulated Medical Waste (RMW) are permissible for treatment and destruction using the BONDTECH CORPORATION BTT 6.5x26 AUTOCLAVE SYSTEM.

- a. Chemotherapeutic waste, waste contaminated with non-incidentals, hazardous waste, cytotoxic agents and radioactive materials are prohibited.
- b. Items that will not be destroyed, such as solid metal appliances, large bulk items, etc, are prohibited.
- c. Any other classes of RMW not listed above are prohibited.

5. RECORDS TO BE MAINTAINED BY THE SYSTEM OPERATORS

Facility operators shall maintain at all times at the facility a copy of the facility's operation records, a copy of an Operations and Maintenance (O&M) manual describing operation and maintenance of the facility, a copy of the CAO issued for that facility and a copy of this authorization. This information shall be available to facility personnel and for inspection by the Departments or their designated representatives. The facility owner shall also maintain copies of all strip printer, chart recorder or other parametric monitoring documentation for three years, and these shall be made available for inspection by the Departments or their designated representatives immediately on request.

Additionally, a log of the sampling schedule and associated microbiological laboratory results shall be kept for a period of three years in an appropriate manner and form and be available for inspection on demand during that period.

6. INSPECTIONS BY THE DEPARTMENT AND DHSS

The Department and DHSS, or their designated representatives, are authorized to make inspections and examinations including photos and videotapes of all premises occupied by the facility that may be impacted by the operation of an authorized medical waste treatment and destruction technology, should Department representatives, in their discretion, consider such an inspection or examination necessary to determine the extent of compliance with any and all conditions of a CAO or other requirements.

7. MAINTENANCE AND HOUSEKEEPING REQUIREMENTS

- a. Operators shall record maintenance activities on a log recording the date and the task performed. Equipment shall be locked out before maintenance is performed.
- b. All spills of any quantity of regulated medical waste (RMW) shall be minimized and cleaned-up immediately by the operator; all liquid run-off or wash-out from waste transporting carts, and any liquid or loose waste from the unit or the residual waste

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dumpster must be entirely contained and disposed of in an approved manner. No wastes may be discharged into storm sewers, floor drains or onto streets, or other areas.

- c. Operators must ensure that routine housekeeping and maintenance procedures shall be implemented within the facility interior to prevent the accumulation of dust, debris and to maintain cleanliness in the work environment. All exposed area surfaces in the unit area shall be decontaminated with an appropriate disinfectant at least once a day and after spill of any waste.

8. INJURIES

Within five days of any injury or illness to any person(s), which could in any way be attributed to the medical waste management system, the facility operator shall submit a written report to the Solid and Hazardous Waste Management Program, New Jersey Department of Environmental Protection, P.O. Box 414, Trenton NJ 08625-0414. The report shall include, but not be limited to, the name, address, and telephone number of the facility; the date, time, and detailed description of the incident; the extent of injuries with names and job responsibilities indicated; an assessment of actual damage to the environment; as applicable, an assessment of the scope of the incident, a description of the immediate actions initiated to clean up the affected area and an implementation schedule for undertaking longer-term measures to effect clean up and avoid recurrence of the incident.

9. EMERGENCY RESPONSE REQUIREMENTS

If an emergency situation occurs, such as fire, explosion, or uncontrolled pollutant discharge or emission to the environment, the facility operators shall implement the following actions:

- a. Assess possible hazards to public health and the environment that may result, immediately identify the character, source, amount, and extent of any discharge and notify appropriate state or local agencies with designated response roles if assistance is needed.
- b. Maintain an extraordinary event log that shall include a complete description of event, time, date, person(s), injuries, equipment failure description, and corrective action taken. An incident report shall be filed within five days with the Solid and Hazardous Waste Management Program at the address described in 8 above.
- d. Ensure that no waste is processed in the affected unit or areas until cleanup procedures are completed and all equipment is again fit for its intended use.

10. SAFETY PROCEDURES

- a. Installation of all BONDTECH BTT 6.5x26 AUTOCLAVE SYSTEMS must ensure adequate space shall be available around the system to provide safe egress and access to the system for maintenance and inspection.

**Bondtech Corporation MODEL BTT 6.5x26 Autoclave System**  
**New Jersey Alternate Technology Authorization for RMW Treatment and Destruction**  
**Preferred ID# 440007      RMA090001**

- b. A facility that utilizes this authorized technology shall require that personnel directly involved in any way with operating and maintaining the unit shall successfully complete an initial program of classroom and/or on-the-job training that includes instruction in the operation and maintenance of the equipment and that teaches them to perform their duties in a manner that ensures the facility's compliance with the requirements of N.J.A.C. 7:26-3A, the conditions of all Departmental requirements for the facility, and all other requirements. The training program shall at a minimum:
  - (i) Ensure that facility personnel are able to effectively respond to any equipment malfunction or emergency situation that may arise by providing instruction in the use of safety equipment, personal protective equipment (PPE), procedures for inspecting and repairing facility equipment, machinery and monitoring systems and the procedures to be followed during planned and unplanned shutdown of operations.
  - (ii) Contain instruction for monitoring of incoming loads and also shall include instruction related to identification and proper handling of suspected unauthorized waste types.
  - (iii) Contain instruction by trained experts in fire training and noise monitoring to appropriate personnel as needed.
  - (iv) Be completed by personnel prior to their medical waste assignment with a planned annual review of the initial-training program. Training records that document the type and amount of training shall be maintained.
- c. A copy of the operating safety procedures must be posted at the facility and shall include the telephone numbers of the local ambulance and hospital facilities.
- d. Fire detection and protection systems shall be maintained in operable condition at all times to extinguish any and all fires. Fire fighting procedures shall be posted and shall include the telephone number of local fire and police departments.
- e. Access to the site shall be restricted to only authorized facility personnel and visitors. Security procedures shall be implemented that provide for an effective means of controlling entry and exit at all times.

11. MODIFICATIONS TO THE SYSTEM

- a. No modifications may be made to this authorized medical waste treatment system, by BONDTECH or by the operator, without prior notification of and approval by the Department and DHSS.
- b. If changes are made regarding the design and operation of the BONDTECH BTT 6.5x26 AUTOCLAVE SYSTEM authorized herein, information concerning the



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changes must be submitted in ATRF format to the Solid and Hazardous Waste Management Program for review by the Department and the DHSS before the modified system can be used in New Jersey. The DHSS may require additional information as needed.

12. CONTINGENCY

The following protocols shall be prepared in advance of startup of the BTT 6.5x26 AUTOCLAVE SYSTEM.

- a. A plan for the disposal of RMW during down time for routine maintenance and emergency repair.
- b. A protocol for the removal and management of untreated RMW from the unit when the system is shut down for troubleshooting and/or repair.
- c. A plan for the disposal of untreated RMW, when a challenge test shows positive growth result (i.e. failure cycle).

12. RMW STORAGE

The RMW awaiting treatment and destruction shall be protected from the elements and maintained in a non-putrescent state and stored in a secure manner and in accordance with N.J.A.C. 7:26-3A.12.

14. EQUIPMENT OPERATOR TRAINING

A training program on the proper operation of the BONDTECH BTT 6.5x26 AUTOCLAVE SYSTEM and the correct handling of RMW before introduction into the unit shall be established and implemented. Records of training schedules including personnel involved shall be maintained and be available for inspection for a three-year period.

It must be emphasized that this review primarily focused on treatment efficacy and not on related environmental and occupational health and safety issues. The Department defers to those state and federal agencies/programs having responsibility for these areas of potential concern.

Furthermore, since this is a new technological process, the Department reserves the right to modify or amend its position as specified in this transmittal as additional knowledge and experience is acquired relative to the design, installation, operation and efficacy of the subject system.

Should you have any questions or require additional information feel free to contact the DHSS Regulated Medical Waste Management Project at (609) 588-3124.

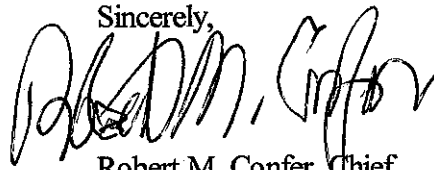
**Bondtech Corporation MODEL BTT 6.5x26 Autoclave System**  
**New Jersey Alternate Technology Authorization for RMW Treatment and Destruction**  
**Preferred ID# 440007      RMA090001**

15. MISCELLANEOUS CONDITIONS

- a. The Departments reserve the right to revise, reevaluate or terminate this authorization at any time as a response to any complaints, violations of this authorization's conditions, modifications of the Department's review and authorization criteria, any person's failure to comply with any condition or requirement set by the Department or DHSS.
- b. This authorization represents the Departments' opinion that the BONDTECH CORPORATION BTT 6.5x26 AUTOCLAVE SYSTEM generally meets the treatment and destruction criteria for RMW for an alternative technology in the State of New Jersey based on the facts and data certified and presented by the vendor or manufacturer.
- c. This authorization does not represent or certify the safety of the technology, its components or the material processed by the technology.
- d. This authorization does not constitute a recommendation or an endorsement by the Department or DHSS and may not be used for that purpose.
- e. This authorization is granted without prejudice and shall not affect any ongoing or future enforcement action the Department or any other agency may take against any person.
- f. The Department and DHSS retain the right to modify or amend the Conditions of this authorization at any time.

If you have any questions, please feel free to contact the Bureau of Landfill and Hazardous Waste Permitting at (609) 984-6985 for assistance.

Sincerely,



Robert M. Confer, Chief  
Bureau of Landfill and  
Hazardous Waste Permitting

enclosure

c: Tim Smith, Research Scientist, Co-Program Manager, Consumer & Environmental Health, DHSS  
David Valiante, Consumer & Environmental Health, DHSS  
Frank Steitz, Air Quality Regulation  
Gautam Patel, Bureau of Financing and Construction Permits, DWQ  
Amy Bilder, BSWCE  
Ed Krisiunas, Waste Not Want Not International, Inc.  
AT File #83



**State of New Jersey**

**DEPARTMENT OF HEALTH AND SENIOR SERVICES**  
CONSUMER, ENVIRONMENTAL AND OCCUPATIONAL HEALTH SERVICE  
PO BOX 369  
TRENTON, N.J. 08625-0369

CHRIS CHRISTIE  
*Governor*

[www.nj.gov/health](http://www.nj.gov/health)

KIM GUADAGNO  
*Lt. Governor*

POONAM ALAIGH, MD, MSHCPM, FACP  
*Commissioner*

May 6, 2010

Mr. Robert Confer, Bureau Chief  
Bureau of Landfill & Hazardous Waste Permitting  
Solid and Hazardous Waste Management Program  
New Jersey Department of Environmental Protection  
401 East State Street  
PO Box 414  
Trenton, New Jersey 08625-0414

Re: Recommendation for Approval of Alternative Technology for the Treatment and Destruction of Regulated Medical Waste (RMW), Pursuant to N.J.A.C. 7:26-3A.47 for Bondtech Corporation's Autoclave/Shredding Technology Bondtech Model BTT6.5x26 System.

Dear Mr. Confer:

The application for the approval of an Alternative Technology was reviewed by the Consumer, Environmental and Occupational Health Service (CEOHS) branch of the Division of Epidemiology, Environmental and Occupational Health to determine the likelihood that this technology can effectively treat and destroy RMW as stated.

The evaluation process consisted of the following steps:

1. Examination of the Installation, Operation and Maintenance Manual to get an overview of the technology and equipment along with all of the safety features that are provided.
2. Review of the Alternative Technology Review Form (revised 6/26/2009) submitted by Bondtech to the New Jersey Department of Environmental Protection.
3. Review of Appendix C – Efficacy Test Report to evaluate how effective this technology treats and destroys regulated medical waste.
4. Discussions with company representatives to review the application, the data, and to discuss the technology.

**Based on our evaluation of this technology and the Efficacy Test Report, the Department of Health and Senior Services (Department) recommends that the Bondtech Model BTT6.5x26 System be approved in New Jersey as an acceptable alternative for the treatment and destruction of Class 1, 3, 4, 6, and 7 RMW.**

**The Department reserves the right to revoke this Recommendation for Approval based on future evidence that the Bondtech Model BTT6.5x26 System does not perform as claimed.**

Please feel free to contact me at (609) 826-4762 if you wish to discuss the matter.

Sincerely,

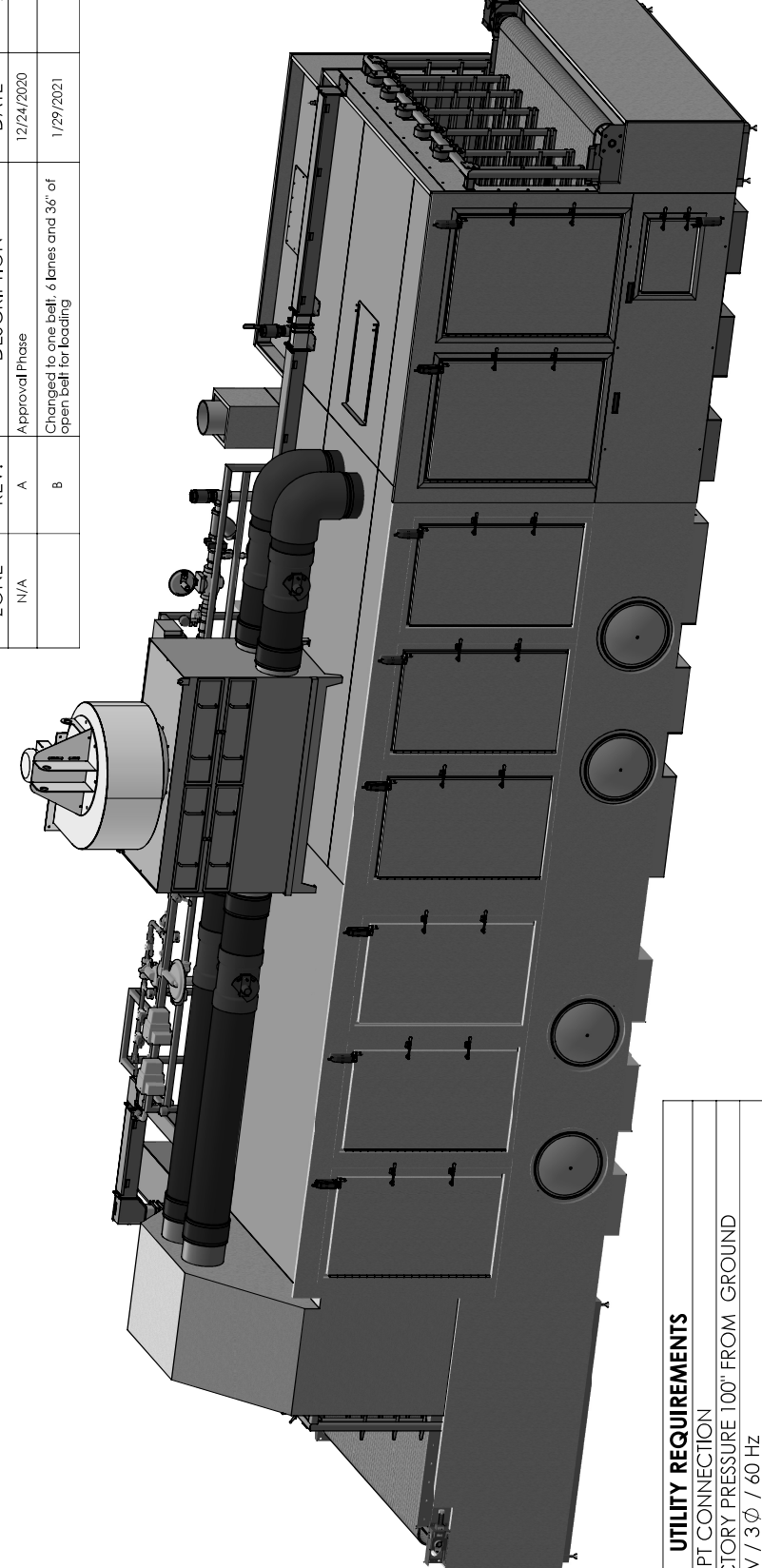
*(original signed by)*

David J. Valiante, CIH  
Consumer Environmental & Occupational  
Health Service  
Public Health Sanitation & Safety Program

c: Christina G. Tan, MD, MPH, State Epidemiologist/Assistant Commissioner, NJDHSS  
Joseph Eldridge, Director, CEOHS

**REVISIONS**

ZONE	REV.	DESCRIPTION	DATE	APPROVED
N/A	A	Approval Phase	12/24/2020	N/A
	B	Changed to one belt, 6 lanes and 36" of open belt for loading	1/29/2021	



UTILITY REQUIREMENTS	
WATER	1" NPT CONNECTION
	FACTORY PRESSURE 100" FROM GROUND
ELECTRICAL	480V / 3Ø / 60 Hz
	235 FULL LOAD AMPS
STEAM EXHAUST	2X 10" PVC CONNECTION
COMP. AIR	5000 CFM @ 3" S.P.
	3/8" NPT CONNECTION
NATURAL GAS	3/4" NPT INLET CONNECTION FOR WASH MODULE
	1,000,000 BTU/HR
	2" NPT INLET CONNECTION FOR RINSE MODULE
	3,000,000 BTU/HR
	800 GALLON WASH TANK
	-6250 LBS DRY (EST)
	-12925 LBS WET (EST)
	800 GALLON RINSE TANK
	-6750 LBS DRY (EST)
	-13425 LBS WET (EST)
	TOTAL
	-26250 LBS DRY (EST)
	-39600 LBS WET (EST)

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 DECIMALS: 1/16" / 1/32" / 1/64"  
 ANGULAR: BEND ±1°  
 ONE PLACE DECIMAL ±.125  
 TWO PLACE DECIMAL ±.05  
 THREE PLACE DECIMAL ±.005

INTERPRET GEOMETRIC TOLERANCING PER ASME Y14.5  
 MATERIAL:  
 FINISH:

DO NOT SCALE DRAWING

S/N: 23377  
 DESCRIPTION: General Facilities, C-72-S4/S4/DH, Stericycle (Morgantown)

NAME: DATE: 1/29/2021  
 DRAWN: JACK SCHUBERT  
 ENG. APPR.:  
 MFG. APPR.:

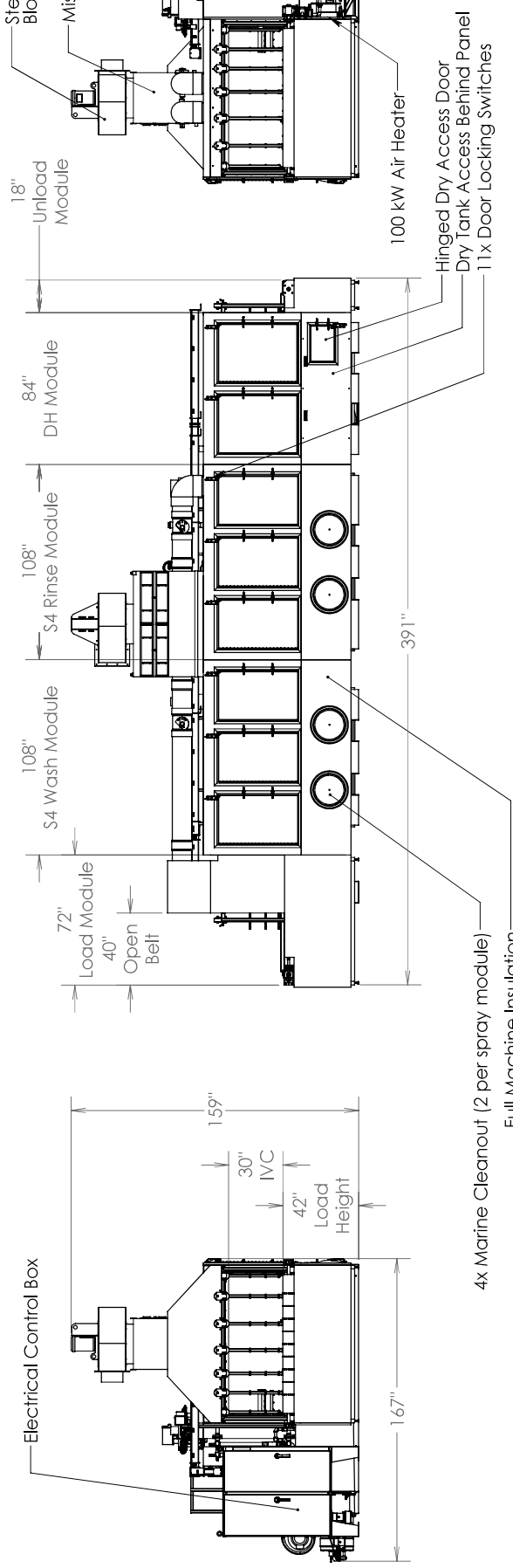
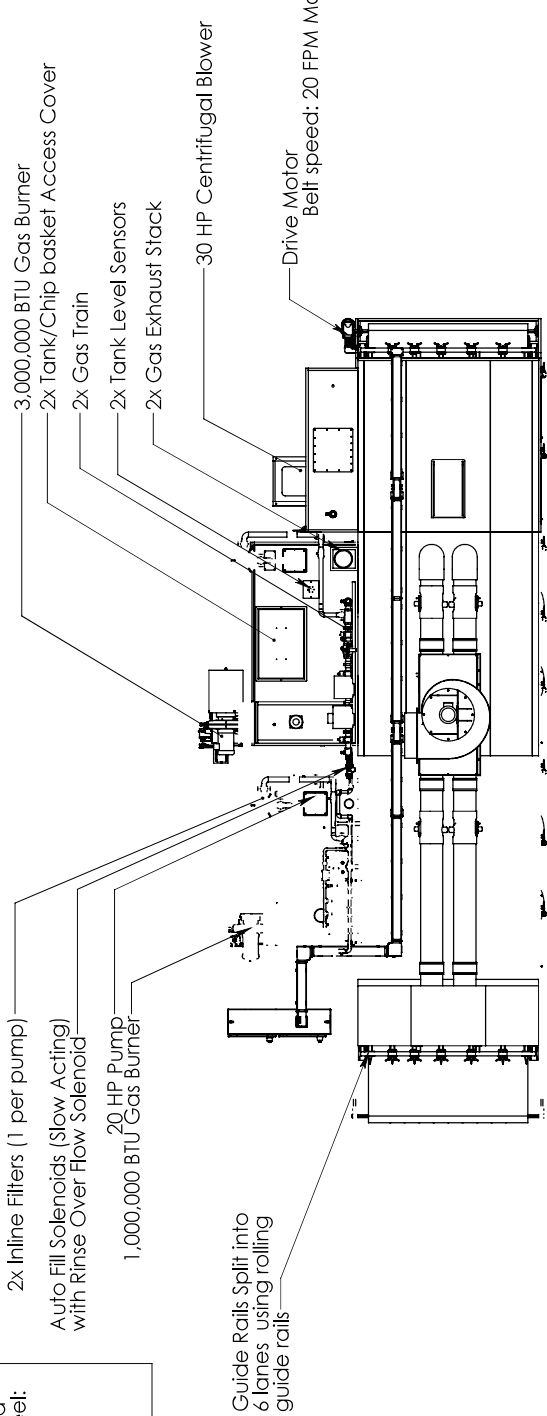
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 SHEET 1 OF 2

3661 Town Center Ct.  
 Baltimore, MD 21286-4960  
 410.321.4200  
 www.betterengineering.com

The following wetted parts of the wash and rinse modules will be type 316 stainless steel:

- Sheet Metal
- Pumps
- Filters and outside plumbing
- Internal Spray Manifolds
- gas fire Tubes

All else will be type 304 stainless steel



4x Marine Cleanout (2 per spray module)  
Full Machine Insulation

**Better Engineering Mfg., Inc.**  
8361 Town Center Ct.  
Baltimore, MD  
21236-4940  
410.321.4000  
www.bettereng.com

SCALE: 1:60 FILENAME: 023377-001

DWG. NO.: **B** 023377-001

REV.: **B**

Sheet 2 of 2