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(a). Maps and Drawings

Various maps are included to address the requirements of the Texas Commission on Environmental Quality (TCEQ) new medical waste form and Section 326.69(d)(5). All proposed locations of waste are included in this registration application.

(1) General Location Map

A general location map is attached in the drawing section of the application as Drawing Number 1-1, respectively. The general location map shows the project location with respect to various interstate highways and downtown El Paso. The general location map shows the project location with respect to various local streets.

(2) Facility Access and Facility Layout

Access to MedCare will be from Billy The Kid Street, the nearest major highway is U.S. Interstate 10. Interstate 10 is located approximately 1.7 miles from the proposed facility. Interstate 10 is a major east and west corridor connecting the City of El Paso, located to the west, with the cities of Las Cruces, New Mexico, and Tucson, Arizona, located to the east San Antonio, Texas.

Coming from the west, one entrance will serve the project site. The site will not provide thru access from the east. A cul-de-sac exist at the east end of Billy The Kid Street, therefore, all traffic that exits the proposed site in an easterly direction will be required to turn around using the cul-de-sac. This will be the only entrance for the proposed site.

All of these roads: state highway and local roads, within one mile of the project site, are shown on Drawing Number 1-1. Drawing Number 1-1 is attached to the drawing section of the application. The existing infrastructure will adequately support the proposed facility.

(A) Public Access Roads Serving the Facility

Access to the MedCare facility is from the south side via the existing two-lane eastbound street, otherwise known as Billy The Kid Street. This road is paved and well maintained.

(B) Longitudinal and Latitudinal

The latitude and longitude at the approximate center of MedCare is North 31.6982 degrees and West -106.3204 degrees, respectively. This information, along with the site location with respect to the major interstate highway system, is shown on the general location map included in the drawing section of this application.

(C) Facility Boundary

A map showing the boundary and the existing conditions at MedCare is attached to drawing section of this application as Drawing Number 1-3. The proposed equipment and proposed layout will be designed to ensure that the existing tract is adequate to support the anticipated waste flow. Improvements will not exceed the capacity of the existing site.

(D) Natural Windbreaks and Greenbelts

There are no known natural windbreaks such as greenbelts associated with MedCare. The existing buildings being used for MedCare will have an adequate setback distance from the existing street to provide sufficient screening of the facility from public view.

(E) Site Entrance Roads and Public Access Roads

MedCare is bound by the westbound right-of-way of Billy The Kid Street to the south. Site access will be provided from a driveway connecting to the north right-of-way of Billy The Kid Street. The entrance to MedCare is

provided via a 20-foot wide gate with automatic opener located on the south property line of the site. Drawing Number 1-1 is attached to the drawing section of the application.

(F) Fencing

MedCare will be surrounded by a proposed eight-foot high chain link fence with climb-proof barbed wire. The fence is located on the property line of the 1.545-acre registration boundary on the north, east and west sides and have an approximate 20-foot wide electronic gate on the south side. The gate will be locked after business hours.

MedCare will be located on a light industrial tract. The site currently consists of a industrial development. MedCare will be set back from the entrance to allow for adequate turning radii and maneuverability. Drawing Number 1-3 is attached to the drawing section of the application.

(G) General Locations of Main Interior Facility Roadways

MedCare consists of asphalt pavement for site access and parking; these will provide for the interior facility roadways.

The major traffic corridors in and around the project site include Interstate 10 and Loop 375. Interstate 10 is a four- to six-lane east to west freeway. Interstate 10, to the east, connects El Paso with the San Antonio area and beyond. Interstate 10, to the west, connects El Paso with the Tucson area and beyond. Loop 375 encompasses El Paso, and connects El Paso with the surrounding areas. MedCare is connected to the major traffic corridors via city streets. The surface type for the surrounding roadways consist of asphalt and concrete. Drawing Number 1-1 is attached to the drawing section of the application.

(H) Locations of Buildings and a Descriptive Title of Their Purpose

The medical waste treatment activities will be performed within the 9,600 square foot warehouse area. This large warehouse area is located 20 feet

from the west property line, 508.5 feet from the south property line, 0 feet from the east property line, and 10.3 feet from the north property line. The south wall of the warehouse will have one roll-up truck access doors. The closest property owner is south of the office building approximately 187 feet. Any noise or odor will be mitigated by the street. The office building is 1,470 square foot and is located approximately 90 feet southwest of the warehouse area. The office building is located 48 feet from the west property line, 375 feet from the from the south property line, 0 feet from the east property line, and 230 feet from the north property line. Routine business activities will occur within the business office. Drawing Number 1-1 is attached to reference site roads and public access roads.

(I) Waste Management and Facility Equipment

The proposed units and equipment needed for MedCare processes includes autoclaves, or steam sterilization units, boiler system, compactor, and collection truck and refrigerated truck or trailer storage. The proposed units and equipment needed for the routine municipal solid waste processes includes the compaction system, shredder, wash area, and storage. All of the proposed medical waste treatment processes and some of the proposed routine municipal solid waste processes will be located within the proposed process area.

(J) Drainage, Pipeline, and Utility Easement for Facility

MedCare is connected to the City of El Paso water and sanitary sewer systems. The water utility is located within the public right-of-way of Billy The Kid Street. Water is provided through a 3/4-inch line connecting to a City 6-inch main. The sewer utility will be located in a proposed 20' public utility easement on the north side of the building. Sewer water is discharged through an 8-inch line connecting to an 18-inch gravity sanitary sewer line. No other additional water or waste water connections will be needed to serve MedCare.

MedCare is constructed with a slab on grade concrete foundation, with metal exterior, and pitched roof with drainage down spouts. The down spouts will drain directly onto the proposed concrete pavement and parking that surround the building. The concrete paving and parking are sloped to drain to either the existing storm sewer in the Billy The Kid Street right-of-way. No additional storm water improvements are required to support the medical waste treatment facility. Drawing Number's 1-3 and 1-9 are attached to the drawing section of the application.

(K) Geographic Representations for Construction Phases

Not applicable.

(3) Land-Use Map

MedCare is located in a light industrial zoned area. MedCare is bound by Luemar LLC to the west, and JDF Trading Corp to the east.

The City of El Paso implements zoning through their Planning Department. The Planning Department manages the development process by providing guidance on current and long-range issues to promote quality development in the City of El Paso. The areas surrounding MedCare have all gravitated towards commercial and light industrial development. Review of the MedCare site indicates that, the neighborhood is stable. Development is at equilibrium, without marked gains or losses in property demand. The area remains active and vital to the El Paso and El Paso County region. The MedCare medical waste treatment facility, as a commercial or light industrial land use, will be a consistent and compatible use of the property.

A map is included as Drawing Number 1-5 labeling the existing various types of development within one mile of MedCare. Drawing Number 1-5 is attached to the drawing section of this application. The existing types of development include industrial, commercial, and single-family residential. Existing commercial structures are within 50 feet of the property boundary to the east, and within 150 feet of the property boundary to the west.

There are seven (7) schools and five (5) churches within one mile of the MedCare boundary. There are five (5) recreational area within the one-mile MedCare boundary. There are no cemeteries or lakes within one mile of MedCare. There are no utility easements or roads within MedCare.

(4) Published Zoning Map

The City of El Paso implements zoning through their Planning and Inspections Department. The Planning and Inspections Department manages the development process by providing guidance on current and long-range issues to promote quality development in the City of El Paso. The areas surrounding MedCare have all gravitated towards commercial and light industrial development. A medical waste treatment facility will be compatible with and comparable to the existing development in and around the project area. MedCare will not adversely affect the existing neighborhood. Refer to Drawing Number 1-6 is attached to the drawing section of this application.

(5) Impact on Surrounding Area

MedCare will not adversely impact human health or the environment. The wind direction, neighboring development, site size, existing access roads and controls, existing utilities, and existing drainage improvements are more than adequate to support the proposed facility. The review of topographic, aerial, and land use information confirm that MedCare will be compatible with existing development in the area.

At the 2016 Census, there were 683,080 people residing in El Paso, an increase of 5.4% since 2010. According to the 2010 Census there were 2,543.2 Persons/Sq Mile. A great deal of the growth is attributed to people leaving the fringe communities and moving into the large urban center of El Paso.

Within a 500-foot radius around the site boundary there are 3 blocks zoned as commercial or light industrial development and 9 lots zoned Residential. A portion of these blocks have existing commercial or light industrial development. The lots

that are zoned as residential have homes that are developed. There is an existing railroad right-of-way that separates the residential development from the commercial or light industrial development properties. MedCare will be a compatible land use for the site and surrounding neighborhood. There are no existing buildings that will be adversely affected by the proposed facility.

Within a one-mile boundary from the project there are five (5) recreational areas that are approximately 1.0 mile or less from the proposed site. The recreational areas are all parks. There are thirteen (13) schools, licensed day-care facilities, churches, hospitals, cemeteries, ponds, or lakes within one mile of MedCare. An additional commercial development in the form of the proposed medical waste treatment facility, will not adversely affect these amenities. Drawing Number 1-6 is attached for a reference to land use.

(6) Land Ownership Map

A partial legal description of the site is Ysleta Industrial District, Parcel 1, 0.618 acres, more or less, out of the Ysleta Industrial District, a subdivision in the city of El Paso, El Paso County, Texas according to the map there of recorded in Vol. 35, Page 20, plat records of El Paso, County Texas and more particularly described by metes and bound. Parcel 2, 0.926 acres, more or less, out of the Ysleta Industrial District, a subdivision in the city of El Paso, El Paso County, Texas according to the map thereof recorded in Vol. 35, Page 20, plat records of El Paso County, Texas, and more particularly described by metes and bounds. This information is reflected on the El Paso Central Appraisal District maps. In order to obtain a comprehensive view of all tracts or lots within one quarter-mile or 1,320 feet of the site boundary, several EPCAD maps were spliced together. Data was taken from El Paso Central Appraisal District's website. An overall index map is provided showing each property owner on Drawing Number 1-2 attached to the application.

(7) Metes and Bounds

A metes and bounds description and boundary survey were completed for the two parcels. A 0.618 acre tract and a 0.926 acre tract by registered surveyor Caesar A. Garcia in 2018. A copy of each is attached to this application for reference. The survey identifies the two tracts as a 0.618 acre industrial tract, and 0.926-acre industrial tract more precisely described as Ysleta Industrial District, a subdivision in the city of El Paso, El Paso County, Texas. Drawing Number 1-3 is attached for a reference to the survey and the metes and bounds land description.

(b). Property Owner Affidavit

The applicant shall provide a property owner affidavit that is signed by the owner and includes:

(1) State of Texas Acknowledgement

Acknowledgement that the State of Texas may hold B & P Properties, LLC either jointly or severally responsible for the operation, maintenance, and closure of the facility

(2) Owner or Operator Acknowledgement

Acknowledgement that the facility owner or operator and the State of Texas shall have access to the property during the active life after the closure for the purpose of inspection and maintenance.

(c). Licensed Operator

The owner or operator shall acknowledge that a licensed solid waste facility supervisor, as defined in Chapter 30 of this title (relating to Occupational Licenses and Registrations), be employed before commencing facility operations.

(d). Legal Authority

The owner and operator shall provide verification of their legal status as required by §281.5 of this title (relating to Application for Wastewater Discharge, Underground Injection, Municipal Solid Waste, Radioactive Material, Hazardous Waste, and Industrial

Solid Waste Management Registration). This shall be a one-page certificate of incorporation issued by the secretary of state.

(e). Transportation

(1) Access Roads to Site

MedCare, Inc. can be accessed from downtown El Paso by heading east on Interstate 10, 8 lane (4 lane each direction) concrete Interstate for 11.5 miles to exit 32 toward TX-659/Zaragoza Road/George Dieter Road, which is a 4 lane (2 lane each direction) with center turning lane made of asphalt pavement and turning right. Then from TX-659/Zaragoza Road/George Dieter Road head southwest approximately 1.84 miles to Billy The Kid Street, which is 2 lane (one lane each direction) road made of asphalt pavement. Turn left on Billy The Kid Street and head south for approximately 0.21 miles to entrance of the site. The site is located on the northbound side of Billy The Kid Street. The roads accessing the proposed site are deemed adequate under the City of El Paso design standards.

(2) Vehicular Traffic Volume

These annual average counts are further defined by City of El Paso Streets and Maintenance Department into traffic and truck flowband maps. The latest flowband map available from the website is for 2013. Portions of the flowband maps for traffic and truck flow are included in this part of the application for reference. The City of El Paso Traffic Count Map Viewer shows an annual average daily traffic count of 896 at the intersection of Mellon Drive and Zaragoza Drive. A City of El Paso Traffic Count Map is attached as Drawing 1-13.

(3) Expected Vehicle Traffic

At ultimate development, MedCare will generate 15 to 20 truck trips per day using a 24-hour day. With proposed employee and public access included, the ultimate annual average daily traffic count generated by the facility will be no more than 50. This added traffic volume will not adversely affect the service levels of existing FM 659 and Interstate Highway 10.

(4) Public Roadway Improvements

MedCare will not require any roadway improvements, as the site is located in a developed industrial zone. Attached is a letter submitted to TxDOT District Engineer, El Paso County, on January 16, 2018.

(f). Facility Surface Water Drainage Report

MedCare falls within the El Paso Stormwater Master Plan Mission Valley Region. Public storm sewer in and around the site drains into Basin G. Basin G, with respect to the project site, is shown on Drawing 1 - 4. Drawing 1 - 4 is attached to the drawing section of the application. Attachment 1 -12 is provided to depict Basing G.

(1) 25 – Year Rainfall Event

MedCare, as a municipal solid waste facility, must be constructed, maintained, and operated to manage run-on and runoff during the peak discharge of a 25-year rainfall event and must prevent the off-site discharge of waste materials including, but not limited to in-process and/or processed materials. Surface water drainage in and around the facility must be controlled to minimize surface water running onto, into, and off the treatment area. In the case of the MedCare facility, the proposed treatment area is within a completely enclosed structure. Exterior activities will be limited to site ingress and egress, waste storage within either a hauling vehicle or refrigerated trailer, or waste compaction/storage within an integrated watertight manufactured container.

(2) Surface Water Drainage

MedCare is constructed with a pitched roof and drainage down spouts. The down spouts will drain directly onto the concrete pavement and parking that surround the building. The concrete paving and parking are sloped to drain into the existing storm sewer in Billy The Kid Street right-of-way. No additional storm water run-off will be generated by MedCare waste treatment activity. No additional on-site construction is required to support MedCare. No additional storm water improvements are required to support MedCare.

(3) Texas Pollutant Discharge Elimination System

Texas Pollutant Discharge Elimination system (TPDES) storm water permitting is required. The owner/operator will obtain the appropriate TPDES permit coverage when required; or copy of the permit number for coverage under an individual wastewater permit.

(4) 100-year Floodplain

The Federal Emergency Management Agency (FEMA) mapped the flood plain and flood way on Flood Insurance Rate Map (FIRM) Number 480210048C, dated February, 2006. The FIRM map shows the flood plain Zone AH to be approximately 1,300 feet east of the proposed site. Zone AH is defined as, the base flood or 100-year flood. Zone AH is defined as:

*Flood hazard areas identified on the Flood Insurance Rate Map are identified as a Special Flood Hazard Area (SFHA). SFHA are defined as the area that will be inundated by the flood event having a 1-percent chance of being equaled or exceeded in any given year. The 1-percent annual chance flood is also referred to as the base flood or 100-year flood.

According to the topographic information from the United States Geological Survey (USGS), the project site is at approximate elevation 3,680 feet above mean sea level.

Copies of the applicable portion of the FIRM along with portions of the FIRM legend are attached to this part of the application for reference. With the proposed project site elevation at 3,680, the site is an area of minimal flood hazard.

No additional site improvements are necessary to support MedCare treatment activities. Storm water run-off will not be increased. Thus, MedCare will not adversely impact the playa lake. MedCare or any portion of the facility's proposed registration boundary will not be located within a floodplain. Drawing Number 1-4 is attached for a reference to the surface water drainage.

(5) Wetlands Location

Site development history, previously discussed in this application, shows that the land use for the property can be traced back to 1954. Early photographs show the undeveloped property as clear, level, and dry. After 1991, the site looks much like it does today, with the existing development. No wetlands are, or have been, located within the facility boundary for at least 64 years. According to the national Wetlands Inventory database there is an existing Riverine, which is categorized as a wetland north of the existing facility. The existing Riverine is located north of the property parallel to the railroad right-of-way. The Riverine is a channel that is an open conduit that was artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of standing water. The MedCare facility will not impact any wetlands.

(g). Council of Governments and Local Government Review Request

MedCare, Inc. is located in the City of El Paso within El Paso County, Texas. The Rio Grande Council of Governments region is located along the southwest corner of the State of Texas, bordering Mexico's State of Chihuahua on the south and New Mexico to the North and West. This vast region covers 25,516 square miles and is home to Big Bend National Park and Guadalupe National Park. Geographically, El Paso is the smallest county, but it accounts for 77 percent of the total population. Doña Ana County in New Mexico is the second largest population accounting for 20 percent of the region's total population. Most notably, the entire region is located in the Chihuahuan Desert, which extends into parts of New Mexico, Arizona and Mexico.

The Rio Grande Council of Governments region is unique in the State of Texas, through its traditions and in its geography.

The overall purpose of this plan is to help the region maintain a direction that will lead to an improved access to solid waste services in the El Paso region, to enhance waste reduction efforts in the region and help to ensure the continued protection of El Paso's environmental resources.

El Paso County and the City of El Paso each serve a specific and isolated medical waste stream. Additional steam services are needed to treat medical waste. The El Paso region, with a population of 700,000 provides an average of 235 hospital beds for every 100,000 people. With an average of four pounds of medical waste per bed per day, the medical waste from El Paso County and the City of El Paso hospitals alone reaches as much as 3.29 tons per day. Medical waste is generated by doctor's offices, dentists, local clinics, and laboratories as well.

MedCare is approximately 15 miles from downtown El Paso. A medical waste treatment facility conveniently located within the El Paso area will help provide a much-needed service, assist in reducing waste hauling costs, and help to keep service costs competitive.

A letter and exhibit of the site location were sent to the Rio Grande Council of Governments for review of compliance with their regional solid waste management program on January 16, 2018. An approval letter from the Rio Grande Council of Governments has been attached.

(h). General Facility Description

The property at 9119 Billy The Kid Street will be improved to accommodate MedCare. The improvements will include a 1,470-square foot office and 9,600-square foot warehouse building, concrete paving and parking, and chain link fence.

In order to provide medical waste treatment services, MedCare will be constructed to include autoclave, or steam sterilization, boiler, compaction, shredder, storage, and wash area systems, along with applicable appurtenances. Medical waste, including sharps, will be steam sterilized and shredded. Confidential documents will be shredded and taken to either a paper recycling facility or approved municipal solid waste (MSW) landfill. The treated medical waste will be compacted and hauled to an approved MSW landfill. The waste processing equipment will be owned by MedCare Environmental Solutions, Inc.

(1) Facility Location

MedCare is located at 9119 Billy The Kid Street, El Paso, Texas 79907, El Paso County, Texas.

(A) Facility Description with Respect to Landmarks

MedCare will be located at 9119 Billy The Kid Street on a 1.545 acre tract of land. Access to the project site will be from Billy The Kid Street, the nearest major highway is U.S. Interstate 10. Interstate 10 is located approximately 1.7 miles from the proposed facility. The facility is located approximately 9.8 miles south to southeast of Fort Bliss Army Base. The facility is located approximately 15 miles southeast of downtown El Paso.

(B) Access Route from Nearest Highway

Access to MedCare will be from Interstate 10. Interstate 10 is a major west to east corridor connecting the City of El Paso, with the cities of Phoenix, Tucson, San Antonio and Houston. The pavement is constructed and maintained by the Texas Department of Transportation (TxDOT).

(C) Longitudinal and Latitudinal Coordinates

The latitude and longitude at the approximate center of MedCare is North 31.6982 degrees and West -106.3204 degrees, respectively. This information, along with the site location with respect to the major interstate highway system, is shown on the general location map included in the drawing section of this application.

(2) Facility Access

Access to MedCare will be from the south side via the existing two-lane eastbound street, otherwise known as Billy The Kid Street. This road is paved and well maintained. MedCare is surrounded by a chain link fence that will have access via an electronic gate that is lockable.

(3) Buffer Zones and Easement Protection

MedCare will be located on a light industrial tract. The site currently consists of a commercial development. The building will be set back from the entrance to allow

for adequate turning radii and maneuverability. MedCare will comply with the City of El Paso's buffer zone and easement requirements. No solid waste unloading, storage, or processing operations shall occur within any easement, buffer zone, or right-of-way that crosses the facility. Processing equipment and storage areas shall maintain a minimum separating distance of 25 feet between the facility boundary and processing equipment, loading, unloading and storage units. Storage units in transport vehicles are not subject to this subsection provided that the waste is stored in refrigerated units with temperatures below 45 degrees Fahrenheit. The executive director may consider alternatives to buffer zone requirements for authorized medical waste storage and processing facilities. If alternative to buffer zone requirements is requested, the buffer zone should be feasible and afford ready access for emergency vehicles and maintenance.

(4) Flow Diagrams and Narrative

The storage, processing, and disposal sequences for the medical waste and other various types of waste anticipated at MedCare are shown on Drawing Number 1-7 included in the drawing section of the application. Waste receipt is governed by various decision operations to ensure that prohibited materials are rejected from the facility as soon as practical. The unloading procedures are shown in a conveyor belt configuration to allow for the dissemination of the various materials, waste, and containers into their appropriate process stream. Points of data collection are designated at the weighing and steam sterilization process. An additional decision operation is added after the steam sterilization process to allow for source separated sharps to proceed prior to compaction. A shredder system will be used to process two separate and independent waste systems. These treated sharps and confidential documents. The shredder will be Vecoplan RG-52 medical waste shredder or approved equal. Up to a 1.5-inch inch screen, the system will have a processing rate up to 5,000 pounds per hour when processing sharps. Waste characteristics and loading may have a dramatic effect not only on processing capacity but also on maintenance. The processing capacity is based upon all materials being shreddable. All unshreddable material will be eliminated from the waste stream.

The flow diagram may vary with actual waste streams and available equipment. Each process, decision, and recording point is identified and described on the drawings. A legend is used to differentiate untreated medical waste from routine municipal solid waste. Once the medical waste is stream sterilized, it is treated as routine municipal solid waste.

(i). Waste Management Unit Design

MedCare will perform steam disinfection using two time/waste volume staged proposed autoclave units. The two units will be located within the existing large warehouse area, in the middle section, just north of the proposed office and bathrooms. The two proposed autoclave units will be Turbo Machine Company Carbon Steel Sterilizer System or approved equal. These units are approximately 6 feet in diameter and 13 to 18 feet in length. The proposed compactor will be a self-contained compactor with integral dumper system, Marathon RJ-250SC-39, or approved equal. The proposed shredder will be a Vecoplan RG-52M system, or approved equal. With a proposed 3/4-inch to 1.5-inch screen, the system will have a processing rate between 500 to 3,000 pounds per hour when processing sharps. The proposed boiler system will be a 30 horsepower boiler manufactured by Columbia Boiler Company of Pottstown, Pennsylvania.

(1) Storage and Processing Unit Information

The first autoclave unit will be a Turbo Machine Company Carbon Steel Sterilizer System ORA, or approved equal. Installation of the second autoclave unit will be staged to a future date/time which allows for the increase in the volume of the waste stream requiring the second unit.

(2) Storage and Processing Component Description

The vessels and processes are more particularly described as automatically controlled, front loading, cylindrical steam autoclaves that use saturated steam under pressure as the decontamination agent. The waste will be loaded into stainless-steel autoclave carts that will be lined with disposable polypropylene. These loaded carts will be rolled up to the autoclave doors and put into the vessels via cart lifts. Three large capacity or four smaller capacity carts may be placed

within each autoclave unit at one time. Once the carts are loaded the doors will be closed and sealed.

Codes will be entered into proposed programmable logic controllers (PLC) to begin the decontamination cycles. The proposed units will have pre- and post-vacuum capabilities. The pre-vacuum cycle will assist in air removal in the chamber allowing for a quicker and more efficient steam penetration into the waste load.

The process will allow for sufficient steam access to or penetration of the waste. When subjecting waste to steam under pressure, the temperature in each chamber of the autoclave will:

reach at least 121 degrees Celsius (250 degrees Fahrenheit);
reach at least 15 pounds per square inch gauge pressure; and
be maintained for at least 30 minutes.

At the completion of the exposure, the vessels will go into exhaust and post-vacuum cycles to help clear the chambers of steam. The steam will go through proposed condensers to lower the steam/water temperature to at least 140 degrees Fahrenheit before draining to the existing waste water lines. The complete cycle time from the beginning to end will typically be one hour. Cycle time may fluctuate depending on certain variables.

The autoclaves will be controlled and monitored via the proposed PLC that constantly prints, at certain time intervals, the time, temperature, and pressure of each cycle. The printed data will be retained in the site operating records for a minimum of three years.

(3) Storage and Processing Areas for Spills

The anticipated effluents from the proposed medical waste treatment facility will include process waters from the medical waste treatment process and general wash waters from the routine municipal solid waste process activities. Accidental medical waste spills will be treated prior to disposal. MedCare shall provide storage

and processing areas designed to control and contain spills and contaminated water from leaving the facility. The design shall be sufficient to control and contain a worst case spill or release. Unenclosed containment areas shall also account for precipitation from a 25-year, 24-hour storm. Any necessary sampling and analysis will be coordinated with the City. Outdoor wash waters will be discharged into the proposed storm sewer systems. Outdoor wash waters will consist of any water used from an outside hydrant to wash debris from sidewalks or driveways.

The City of El Paso currently provides public water supply and sanitary sewer collection for the proposed improvements. The public water and sanitary sewer utilities are located within the public right-of-way of Billy The Kid Street.

MedCare will be connected to the City of El Paso public water system through a proposed 3/4-inch line from an existing 12-inch water main. The proposed water line will provide water to the existing warehouse, bathrooms, and office.

MedCare will be connected into the City of El Paso public sanitary sewer collection through a proposed 8-inch line connecting to a City 8-inch gravity sanitary sewer line. The proposed line will drain the proposed kitchen, bathrooms, break areas, several spigots in the office area and one proposed drainage structure in the warehouse.

No process water will be released until cooled to 140 degrees Fahrenheit or less. All process water and wash water from cleaning will be either placed back into the processing unit or discharged into one of two of the City of El Paso's wastewater treatment plants. Manage and discharge will be in accordance with local requirements. All necessary authorizations and approvals will be obtained and retained within the operating record at the site. No contaminated water will be discharged off site without written authorization. The facility will comply with the City of El Paso limits and requirements for discharge.

The waste water discharged into the City of El Paso sanitary sewer will not: 1) interfere with or pass-through the waste treatment facility process or operations;

2) interfere with or pass-through its sludge process, use or disposal; or 3) otherwise be inconsistent with prohibited discharge standards of Title 40 Code of Federal Regulations (CFR) Part 403 (relating to General Permit Pretreatment Regulations for Existing and New Source Pollution)

(4) Security of Stored Medical Waste

The untreated waste in temporary storage will be kept to a minimum in a secure location to prevent from theft, vandalism, unwanted exposure, and weather. Treated waste will be rolled out into the proposed compaction system. Treated and untreated waste will be stored separately. The compacted waste will be hauled to a registered landfill for disposal.

(5) Storage of Putrescible or Biohazardous Waste

Any untreated medical waste on site for longer than 72 hours will be stored within a proposed refrigerated trailer. The refrigerated trailer will be located outside, adjacent to the west wall of the proposed building but no closer than 50 feet to the south property line. The refrigerated unit will maintain the stored waste a temperature of 45 degrees Fahrenheit or less. There will be multiple trailers on site, which are capable of storing a gross storage of 60 cubic yards of waste per trailer. With an approximated void ratio of 35 percent within the containers, the proposed trailer will hold 39 cubic yards (60 x 0.65) of medical waste.

The refrigerated unit will have a gross storage of 100 cubic yards. This assumes a minimum width of 8 feet, a minimum height of 12 feet, and a minimum length of 28 feet. The dimensions and volume may vary with equipment availability. With an approximated void ratio of 35 percent within the containers, the proposed refrigerated unit will hold 65 cubic yards (100 x 0.65) of medical waste.

Additional refrigerated units may be added if necessary. These additional units will be located either within the existing large warehouse area or outside, adjacent to the north wall of the proposed building within the proposed process area.

(j). Treatment Requirements

MedCare will treat medical waste in accordance with the provisions of Title 25 TAC Section 1.136 using steam disinfection. Steam sterilization will be utilized in the treatment of the medical waste. Refrigerated units may be used to temporarily store the untreated medical waste. Shredding and compaction may be used in the handling of the treated medical waste. Supporting systems will include storage and wash areas.

(1) Operator Demonstration of Minimum Four Log Ten Reduction

Medcare shall demonstrate a minimum four log ten reduction as defined in 25 TAC §1.132 (relating to Definitions) on routine performance testing using appropriate Bacillus species biological indicators (as defined in 25 TAC §1.132).

(2) Weekly Testing

Medcare shall conduct weekly testing.

(3) Performance Standard Compliance

For those processes that the manufacturer has documented compliance with the performance standard prescribed in 25 TAC §1.135 based on specific parameters (for example, pH, temperature, pressure, etc.), and for previously approved treatment processes that a continuous readout and record of operating parameters is available, the operator may substitute routine parameter monitoring for biological monitoring. The operator shall confirm that any chemicals or reagents used as part of the treatment process are at the effective treatment strength. The operator will maintain records of operating parameters and reagent strength for three years.

(4) Quality Control – Single Use Units

The MedCare Environmental Solutions, Inc. medical waste facility will be constructed based on the future intake/capacity of waste that is received at the facility. MedCare plans on increasing the production of their facility with an additional autoclave in the future. MedCare will also submit the required financial assurance for each phase prior to commencing with expansion of processing of waste. MedCare will operate with one (1) autoclave which has the capability of processing 15 tons of waste based on a 24-hour operation. In the future, based on production volumes, MedCare will include an equal or larger autoclave that will

have the capability of processing the projected waste volume based on a 24-hour operation.

The manufacturer of single-use, disposable treatment units shall be responsible for maintaining adequate quality control for each lot of single-use products. The treating facility shall be responsible for following the manufacturer's instructions.

(5) Potable Water Contamination Prevention

MedCare will use backflow preventers on any potable water connection to prevent contamination of potable water supplies.

(6) Medical Waste Incinerators

Owners or operators of medical waste incinerators shall comply with the requirements in §111.123 of this title (relating to Medical Waste Incinerators) in lieu of biological or parametric monitoring. MedCare will not have any incinerators associated with their facility.

(7) Alternative Treatment Technologies

Alternative treatment technologies may be approved in accordance with requirements found in 25 TAC §1.135 (relating to Performance Standards for Commercially-Available Alternate Treatment Technologies for Special Waste from Health Care-Related Facilities). MedCare will not have any alternative treatment technologies associated with their facility.

(k) Closure Plan

MedCare, Inc., as a proposed medical waste treatment project, is considered a municipal solid waste facility. As such, MedCare is required to have a closure plan in accordance with Chapter 326.71(k). The requirements from Section 326.71(k) (relating to Closure Requirements for Municipal Solid Waste Storage and Processing Units) and (relating to Certification of Final Facility Closure) are applicable and are addressed.

(1) Facility Units

All proposed processing units will be decontaminated, dismantled, and removed from the site. The existing and proposed waste water lines draining the equipment will be disinfected and flushed, then cut and plugged. All existing and proposed water lines serving the equipment will be cut and plugged. Any building openings, either in the walls or roof, remaining after equipment removal, will be covered. The remaining building and site will be disinfected and cleaned.

(2) On-Site Waste and Material Removal

Upon closure of MedCare, all waste materials, residues, and any recovered materials will be removed from the facility by the operator. Removed materials will be taken to authorized facilities for treatment or disposal. All waste items removed will be properly manifested and recorded.

In case of an accidental spill during the closure process, the executive director of the TCEQ may require an investigation into the nature and extent of disaster and assessment to correct the problem and impact on groundwater. The closure of MedCare will be completed within 180 days following the most recent acceptance of processed or unprocessed materials unless otherwise directed or approved in writing by the executive director.

(3) Closure of the Facility

Closure of MedCare must be completed within 180 days following the last acceptance of processed or unprocessed materials unless otherwise directed or approved in writing by the executive director.

(I) Certification of Final Closure

Within ten days of completion of final closure activities, the operator or the operator's agent will submit to the executive director of the TCEQ a closure certification and a request for registration revocation. The closure certification will be signed by a Texas licensed professional engineer and will verify that the final facility closure was completed in accordance with the approved closure plan. The engineer's certification may state that:

“This facility has been adequately closed and decontaminated using currently acceptable practices and is in compliance with local, state, and federal guidelines. In my professional opinion, remaining contamination (if any) poses an insignificant health risk based on the quality, toxicity, and location of the contamination, as well as the proposed use and potential activities of persons on the site.”

(1) Publish Notice of Closure

Once the decision is made to close, and no later than 90 days prior to the closure, the operator will place a public notice in the newspaper with the largest circulation in the area. The announcement will have the facility name, contact address and physical location, registration number, notification number, and intended closure date. The operator will also make available an adequate number of copies of the approved final closure plan for public access and review. A written notice will be sent to the executive director of the TCEQ of the intent to close the treatment facility. Additional notices will be mailed to current customers. Copies of all correspondence will be placed in the site operating record.

(2) Notification to Executive Director

Within ten days of completion of final closure activities, the operator or the operator’s agent will submit to the executive director of the TCEQ a closure certification and a request for registration revocation. The closure certification will be signed by a Texas licensed professional engineer and will verify that the final facility closure was completed in accordance with the approved closure plan. The engineer’s certification may state that:

“This facility has been adequately closed and decontaminated using currently acceptable practices and is in compliance with local, state, and federal guidelines. In my professional opinion, remaining contamination (if any) poses an insignificant health risk based on the quality, toxicity, and location of the contamination, as well as the proposed use and potential activities of persons on the site.”

This Closure Plan provides for the conclusion of all operations and the termination of the requirements for a State of Texas Medical Waste Treatment Facility Registration at the location. It is anticipated that if MedCare was closed, at or near peak operations, MedCare could have 51,600 pounds of containerized waste on-site at MedCare during Phase I of operation. It is anticipated that if MedCare was closed, at or near peak operations, MedCare could have 154,500 pounds of containerized waste on-site at the Facility during Phase II of operation. In order to close MedCare, the on-site medical waste would need to be transferred to a disposal facility, the containers used for the transfer of the medical waste would need to be cleaned and sanitized, the MedCare floors and paved parking in the storage and processing/treatment areas would need to be cleaned and sanitized, and the MedCare equipment would need to be removed from the MedCare property.

(3) Final Closure Activities

Signs will be posted at the proposed gates, the main gate along Billy The Kid Street and the main office, notifying all parties that may utilize MedCare about the proposed closing date. The signs will state that after the closing date, acceptance of waste at MedCare will be prohibited. After the date of closure, the gates will be shut or barriers installed to prevent unauthorized dumping.

(A) Certification

A certification, signed by an independent licensed professional engineer, verifying that final facility closure has been completed in accordance with the approved closure plan. The submittal to the executive director shall include all applicable documentation necessary for certification of final facility closure; and

(B) Request for Voluntary Revocation

A request for voluntary revocation of the facility registration.

(m) Cost Estimate for Closure

General closure costs will be incurred in the execution of the notice requirements, in the coordination of the closure activities, and in the acquisition of the closure certifications. Specific costs associated with the closure of MedCare includes the removal of waste materials, the dismantling of the proposed equipment, and the cleaning of the remaining existing and proposed site improvements. The costs associated with the general closure activities are summarized in the following table. These estimates are based on receiving an approximate average of waste acceptance of 105 tons of waste per week of operation. Financial assurance will be submitted in a timely manner to cover the cost that is implemented to the registration. The cost provided are in 2018-dollar figures and based on Mr. Sorensen’s medical waste experience, as well as previous registrations. A closure cost estimate is provided in sections (A), (B), and (C) below.

(1) The Cost Estimate Must:

The cost estimate must provide figures for the following items listed below associated with the facility:

(A) Facility Closure Costs

ITEM	UNITS	NUMBER OF UNITS	DESCRIPTION	UNIT COST	COST	CONTINGENCY COST (15%)
1	Pounds	51,600	Disposal of 51,600 pounds of medical waste	\$0.60	\$30,960.00	\$35,604.00
2	Each	3,550	Cleaning and Sanitizing 3,550 each 96 gallon containers 3,550 containers @ 2.00 per container	\$2.00	\$7,100.00	\$8,165.00
3	Lump Sum	1	Cleaning and Sanitizing the Treatment Facility floors & parking	\$2,500.00	\$2,500.00	\$2,875.00
4	Lump Sum	1	Removal of Treatment Facility Equipment	\$10,000.00	\$10,000.00	\$11,500.00
Sub			Total Cost of the Treatment Facility Closure		\$50,560.00	\$58,144.00

The chart above represents the cost that would be associated to close the facility with one autoclave in operation.

ITEM	UNITS	NUMBER OF UNITS	DESCRIPTION	UNIT COST	COST	CONTINGENCY COST (15%)
1	POUNDS	154,500	Disposal of 154,500 pounds of medical waste	\$0.60	\$92,700.00	\$106,605.00
2	Each	3,550	Cleaning and Sanitizing 3,550 each 96 gallon containers 3,550 containers @ 2.00 per container	\$2.00	\$7,100.00	\$8,165.00
3	Lump Sum	1	Cleaning and Sanitizing the Treatment Facility floors & parking	\$2,500.00	\$2,500.00	\$2,875.00
4	Lump Sum	2	Removal of Treatment Facility Equipment	\$25,000.00	\$25,000.00	\$28,750.00
Sub			Total Cost of the Treatment Facility Closure		\$127,300.00	\$146,395.00

The chart above represents the cost that would be associated to close the facility with two autoclaves in operation.

The majority of waste materials, at the MedCare facility, at any one time, will be untreated and treated medical waste. The untreated medical waste will either be within the hauling vehicle in which it was transported or within the refrigerated trailer. In both cases, the untreated medical waste will be within the containers in which it was originally packaged. The maximum number of hauling vehicles that facility can manage is five, all at the loading/unloading docks. Refer to Section §326.75 of this application for additional information on storage requirements. At closure, each of these five vehicles will be driven to an alternate medical waste treatment facility for processing. Each truck will contain no more than 58 gross cubic yards of material. The maximum waste weight within each truck is calculated using a 35 percent void ratio and a unit waste weight of 200 pounds per cubic yard. Each truck may contain as much as 3.78 tons (58 x 0.65 x 200 / 2,000) of untreated medical waste for a total of 18.9 tons (5 x 3.78) for all vehicles.

The refrigerated trailer, when full, will hold a gross storage volume of 60 cubic yards. With similar void ratio unit weight, the refrigerated unit may contain as much as 3.9 tons ($60 \times 0.65 \times 200 / 2,000$) of untreated medical waste. If a truck unit is in place, the truck will be driven to an alternate medical waste treatment facility for processing. If a trailer is in place, a truck will be rented and used to carry the trailer and waste to an alternate medical waste treatment facility for processing. The trailer alternate is used for the cost estimate.

Treated medical waste along with other routine municipal solid waste may be found within the proposed compactor at closure. The maximum volume of waste in the compactor at any one time will be 30 cubic yards. Using a unit weight of 200 pounds per cubic yard of routine municipal solid waste, the maximum weight of the waste within the compactor will be 3 tons ($30 \times 200 / 2,000$). At closure, the compactor will be hauled off site and the routine solid waste disposed of at a municipal solid waste landfill. The MedCare facility has a maximum storage capacity of 1,907 Square Feet within the facility.

Upon closure, each proposed process system will be disconnected, dismantled, disinfected, and hauled off site. These proposed systems include the autoclave or steam sterilization, boiler, baler, shredder, and wash area. Each, if applicable will be disconnected from the existing and proposed utility connections. The utility connections may include electrical, water supply, and waste water collection. Components, if applicable, will be disinfected.

Once the waste materials and equipment are removed, the building and site will be cleaned. The concrete floors within the warehouse will be swept, disinfected, and rinsed. The concrete pavement in the loading docks will be swept and rinsed. The remaining concrete pavement on site will be swept and rinsed. Cleaning will be complete in compliance with the

sanitation and processing requirements previously in this part of the application.

(B) Cost of Third Party

The cost associated with hiring a third party not associated with the owner or operator would be as follows: Phase I = \$50,560.00; or Phase II = \$127,300.00

(C) Measure for Collection and Disposition Cost Based on Volume

Thus, the total cost to close MedCare, during Phase I, is \$50,560.00. MedCare, Inc. will submit an originally signed financial assurance mechanism to the executive director of the TCEQ corresponding to this amount no later than 60 days prior to the initial receipt of waste for each phase that is implemented. The insurer will be licensed to transact insurance business in Texas or will be eligible to provide insurance as an excess or surplus lines insurer in Texas. The financial assurance mechanism will comply with the requirements of Chapter 37 (relating to Financial Assurance) Subchapter J (relating to Financial Assurance for Recycling Facilities) and Subchapter R (relating to Financial Assurance for Municipal Solid Waste Facilities).

(2) Closure Cost Estimate Increase

An increase in the closure cost estimate and the amount of financial assurance provided under subsection (n) of this section must be made if changes to the facility conditions increase the maximum cost of closure at any time during active life of the facility.

(3) Closure Cost Estimate Reduction

A reduction in the closure cost estimate and the amount of financial assurance provided under subsection (n) of this section may be approved if the cost estimate exceeds the maximum cost of closure at any time during the operation of the facility. A reduction in the cost estimate and the financial assurance must be

considered a modification and the owner or operator shall provide a detailed justification for the reduction of the closure cost and the amount of financial assurance.

(n) Financial Assurance

A copy of the documentation required to demonstrate financial assurance as specified in Chapter 37, Subchapter R of this title (relating to Financial Assurance for Municipal Solid Waste Facilities) must be submitted 60 days prior to the initial receipt of waste.

Continuous financial assurance coverage for closure must be provided until all requirements of the final closure plan have been completed and the facility is determined to be closed in writing by the executive director.

(o) Site Operating Plan

The Site Operating Plan (SOP) provides general operating procedures for facility management for day-to-day operations at the MedCare, Inc. medical waste treatment facility. The SOP is Section §326.75 of the municipal solid waste (MSW) registration application and consists of the information required by Title 30 Texas Administrative Code (TAC). This SOP is written as if all of the proposed equipment and appurtenances, proposed building and features, and proposed infrastructure are complete and in place. OJD Engineers does not guarantee or certify that these provisions have been executed.

The site operating plan will be maintained throughout the life of MedCare and includes the description of how items in Title 30 TAC Chapter 326 Subchapter F Sections 326.75. This SOP includes provisions for facility management and operating personnel to meet the general and site-specific requirements of these rules. Portions of the requirements relating specifically to municipal solid waste landfills, medical waste generators, and mobile medical waste treatment units are not applicable and are omitted from reference.

The Site Operating Plan contains information about how MedCare, Inc. will conduct operations at the facility, but is not a comprehensive operating manual. Within are represented general instructions for the facility management and personnel to operate the facility in a manner consistent with the approved design and the Texas Commission on

Environmental Quality's rules to protect human health and the environment and prevent nuisances.

Facility Name: MedCare Environmental Solutions, Inc.

TCEQ MSW Registration Number: 40294

Facility Address: 9119 Billy The Kid Street, El Paso, Texas 79907

MedCare will not be a generator of leachate or landfill gasses; therefore, no procedures are specified for recirculation of leachate or gas condensate into a landfill unit as part of the site operation plan. MedCare will not accept grease trap waste, grit trap, or septage processing materials and will not be subject to any registration requirements under the Texas Pollutant Discharge Elimination System or any registration requirements imposed by other agencies (e.g., local government pretreatment or discharge authorization requirements). The anticipated effluents from the proposed medical waste treatment facility will include process waters from the medical waste treatment process and general wash waters from the routine municipal solid waste process activities. Accidental medical waste spills will be treated prior to disposal. The medical waste treatment process waters, in door wash waters, and any treated spills will be discharged into the existing City of El Paso sanitary sewer system. Any necessary sampling and analysis will be coordinated with the City. Outdoor wash waters will be discharged into the proposed storm sewer systems.

(p) Approved Site Operating Plan

The approved site operating plan, the final closure plan, and all other documents and plans required by this chapter shall become operational requirements and shall be considered a part of the operating record of the facility. Any deviation from the registration, the incorporated plans, or any other documents associated with the registration is a violation of this chapter.