

Part IV

Nexus Continuum, LLC

Type V- Municipal Solid Waste Facility

Nexus Material Recovery and Transfer Station

MSW Registration No. XXXXX

Harris County, Texas

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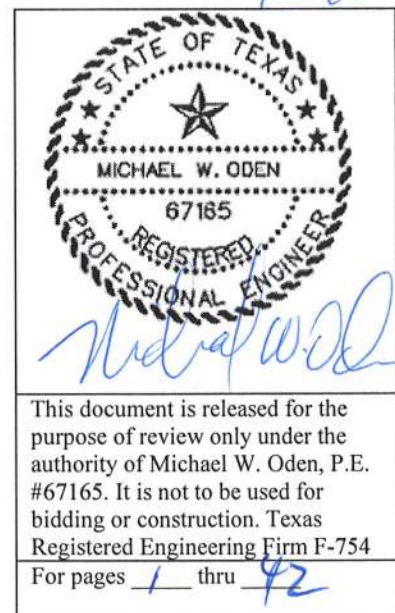
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Nexus Material Recovery and Transfer Station
Part IV
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1.0 SITE OPERATING PLAN

The Site Operating Plan (SOP) contains information about how Nexus Continuum, LLC (Nexus) will conduct operations at the Nexus Material Recovery and Transfer Station, but is not intended to be a comprehensive operating manual. The SOP represents the general instruction for facility management and personnel to operate the facility in a manner consistent with the approved design and the commission's rules to protect human health and the environment and prevent nuisances. The SOP will be maintained onsite throughout the life of the facility.

This SOP consists of the information required by Title 30, Texas Administrative Code (TAC), Chapter 330, Subchapter E: Operational Standards for Municipal Solid Waste Storage and Processing Units, 30 TAC §330.201–§330.249. This SOP (sometimes called Part IV) includes provisions for facility management and operating personnel to meet the general and site-specific requirements of these rules.

2.0 TRANSFER STATION PERSONNEL

Table IV-1 summarizes personnel types and descriptions at the Nexus Material Recovery and Transfer Station.

Table IV-1: Personnel Types and Descriptions

Position	Training	Responsibilities
Site Supervisor	Must hold and maintain MSW Supervisor Occupational license Class B*, experience in material recovery/transfer station management and operations	Managing daily work operations; ensure all waste entering facility is taken and maintained in proper location in accordance with the SOP; initiate emergency procedures; watch trucks unloading, lock facility gates after closing hours, check fire extinguishers, check batteries in smoke detectors
Screenener	Waste screening training	Responsible for visually observing unloading activities to detect unacceptable wastes and for directing vehicles to the appropriate unloading location
Equipment Operator/ Sorter	6 months minimum experience in equipment operation or on the job training by supervisor in SOP requirements for prohibited waste	Waste movement and loading, sorting and compacting recyclables, general facility road maintenance, watch the sorters working on the tipping floor, lock facility gates after closing hours, check fire extinguishers, check batteries in smoke detectors Also responsible for screening for prohibited or unauthorized waste during truck unloading.
Gate Personnel	Training by supervisor in the SOP, record keeping requirements, and waste screening	Controls facility access, inspect loads as outlined in the SOP, and provide general hauler direction and information, and lock facility gates after closing hours.
Laborer	Waste screening by supervisor	Litter control, waste screening, sorting recyclables, site maintenance. These responsibilities may be designated to other personnel.

*30 TAC §30.213(a) relating to Occupational Licensing for Municipal Solid Waste Facility Supervisors requires license level Class B and Class A for a Type V Storage and Processing facility.

A sufficient number of employees will be maintained to keep the site in compliance with all applicable rules and regulations. All personnel will have sufficient training and experience to perform their specific duties. Other personnel include material sorters and truck drivers.

More detailed job descriptions along with written descriptions of the type and amount of introductory and continued training provided to each employee will be maintained in the facility operating record.

Sorters will work on the tipping floor to separate incoming materials. Recyclable material will be sorted and placed in appropriate bins for later transport to a recycling facility. Material not able to be recycled will be loaded in transfer trailers for transport to a permitted MSW disposal facility.

3.0 PERSONNEL TRAINING

Personnel training records will be maintained in accordance with §330.219(b) (2).

Personnel operator licenses issued in accordance with 30 TAC Chapter 30, Subchapter F, Municipal Solid Waste Facility Supervisors, will be maintained as required.

3.1 Training Requirements

The owner or operator will ensure that the transfer station Site Supervisor at the facility is knowledgeable in the proper operation of a municipal solid waste facility and the current operational standards required by the TCEQ. The Site Supervisor will be experienced and will maintain a Class B or Class A license as defined in 30 TAC §30.213(a). The required license may also be held by the Supervisor's designee. The Site Supervisor will ensure that all personnel are properly trained and are operating the transfer station in accordance with this SOP and operational standards required by the registration and the TCEQ municipal solid waste regulations.

The Site Supervisor will be responsible for executing the safety program requirements of the facility. The Site Supervisor's responsibility includes providing training of personnel at the facility and documenting and maintaining training records. Site specific training will be provided to all personnel by the Site Supervisor or his designee. The training will address activities, procedures, monitoring and equipment associated with the activities at this facility. Each employee upon hiring will be instructed by management as to proper procedures for performing the specific job for which they were hired. The first day on the job each employee will be given a tour of the entire facility to familiarize themselves with the location of fire extinguishers, telephones, emergency telephone number, and the location of safety equipment and Material Safety Data Sheets (MSDS).

4.0 EQUIPMENT

Table IV-2 summarizes the equipment used at the facility. The equipment type, size and function are also included. Equipment requirements for MSW acceptance and site support will vary in accordance with the method and scope of activities on site at any given time. Additional, or different units of equipment, may be provided as necessary to enhance operational efficiency. Sizes will vary with types and amounts of waste and work conducted on-site.

The following generally describes the functions of the heavy equipment listed below.

- Front-end Loader – loading of containers for transport
- Transfer trailers – consolidates waste to be hauled to the landfill and recyclable materials to be hauled to market
- Trailer Mule – used to jockey trailers around the site
- Roll-off Mule – used to jockey roll-off boxes around the site
- Roll-off containers – storage of waste or recyclable materials
- Recycling containers – storage of recyclable materials
- Truck scale – weighs in-bound and out-bound vehicles to determine amount of waste delivered/recyclables removed or loaded
- Water Truck – used for dust suppression
- Excavator – used for moving and loading waste and recyclables, as well as for facility maintenance as necessary

Table IV-2: Facility Equipment List

Equipment Type	Typical Size	Function
Rubber Tire Bucket Loader	2 yard	The front end loader will be used to load waste from the processing floor and recyclables
Tarpable Transfer Trailers	80-125 yards	Waste and recyclables are transferred from the processing floor and hauled off-site
Recycling Containers	8-40 yards	These containers will be located in the recycling storage area. The purpose will be clearly designated on each container. May be roll-off boxes or other storage bins
Truck Scale	70 feet	Weighs Waste and Recyclables
Water Truck	varies	Dust Control (as needed)
Excavator		Used for moving and loading waste and recyclables. Also used for facility maintenance as necessary
Trailer Mule		Used to move transfer trailers around within the site boundaries
Roll-off Mule		Used to move roll-off boxes around within the site boundaries

Equipment may change, as necessary, to adequately maintain the facility and meet the operational standards required by the regulations in accordance with federal, state and local agencies. Equipment and vehicles may be owned, rented, leased or loaned. In addition to the equipment listed in Table 2, a variety of other operations, service and support vehicles and equipment may be used at the facility to conduct the day-to-day operations. These may include miscellaneous pickups, vans, and other light utility vehicles, as well as, various pumps and instruments. Safety and training equipment will be available at the facility as necessary to support the various operations.

5.0 FACILITY INSPECTIONS AND MAINTENANCE

Table IV-3 outlines the facility inspection and maintenance list. The Site Supervisor or a designee will perform the task (inspection of the fences, facility signs, drainage ditches, etc). The inspection documentation will be retained in the operating record. Equipment maintenance, facility inspection and corrective action, if required, will be performed monthly, or more often if necessary. Maintenance reports, inspection logs, and corrective action reports will be placed in the site's operating record. Sanitation and litter control procedures will be followed on a daily basis. All working surfaces that come in contact with waste will be washed at least weekly at the completion of processing period (end of the working day).

Table IV-3: Facility Inspection and Maintenance List

ITEM	TASK	Frequency
Fence/Gates	Inspect perimeter fence and gates for damage. Make repairs if necessary.	Monthly
Litter and Windblown Waste	Police working area, wind fences (if any), access roads, entrance areas, and perimeter fence for loose trash. Clean up as necessary.	Roads minimum once a day as part of the scheduled daily routine on days the site is in operation
Waste Spilled on Route to the Facility	Nexus will use its own forces or contract labor for litter removal, collect litter around the entire site perimeter and for a distance from the site entrance for 2 miles along Cunningham Road.	Daily on days the facility receives wastes
Facility Access Road	Inspect internal facility access road for damage from vehicle traffic or erosion. Maintain as needed.	Weekly - more often during wet weather or extended dry weather periods
Facility Signs	Inspect all facility signs for damage, general location, and accuracy of posted information.	Weekly
Drainage Ditches	Inspect and restore if necessary, maintain to prevent tracking mud onto the public access roads.	Weekly and within 72 hours of a rainfall event of 0.5 inches or more
Odor	Inspect the perimeter of the facility to assess the performance of facility operations to control odor.	Daily

6.0 WASTE ACCEPTANCE AND ANALYSIS

30 TAC §330.203

The amount of material that will be received at the facility is estimated to be a maximum of 5,000 cubic yards per day (CY/d). Based on an average incoming density of 400 pounds per cubic yard, the anticipated maximum material to be received is expected to be 1,000 tons per day (TPD). The facility will have the capacity to transfer up to 5,000 CY/d. This is based on the ability to load two 125 CY transfer trailers in an hour (250 CY/hr x 20 hours – assumes 4 hours of down time). It is anticipated that 2,400 cubic yards per day will be received initially. The maximum amount of waste and recyclable material to be received is 5,000 CY per day, of which a minimum of 500 cubic yards per day will be recovered and sent for reuse or recycling.

The facility proposes to operate up to 24 hours per day seven days per week and expects to receive a maximum of about 365,000 tons per calendar year. The population equivalent (based on 5 pounds per capita per day) of 365,000 tons per year is 400,000. The following Table IV-4 shows the maximum amount of solid waste to be received daily and annually for the next five years. These projections are not intended to limit the receipt to less than the maximum of 5,000 cubic yards per day.

Table IV-4: Projected Waste Acceptance

Year	Daily (CY)	Annually (CY)
1	2,400	876,000
2	2,640	963,600
3	2,904	1,059,960
4	3,194	1,165,956
5	3,514	1,282,552

Note: Increase is assumed at 10% per year.

The maximum amount of solid waste and recyclables to be stored at the facility is based on 43 transfer trailers loaded with an average of 125 cubic yards of material each. Therefore, a maximum of 5,375 cubic yards may be stored. Once this storage volume has been received, no additional material will be accepted until an equal volume is removed. If smaller trailers are utilized for storage, the maximum storage volume may be reduced.

The average length of time that solid waste will be stored at the facility is expected to be 24 hours with a maximum length of 72 hours. Solid waste will be delivered to a permitted area landfill. The average length of time that recyclable materials will be stored at the facility is expected to be two days with a maximum length of 180 days, depending on the market at the time. Recyclable material will be delivered to local commodity markets.

6.1 Authorized Wastes

The transfer station will receive the following materials for storage and processing:

- Residential or household municipal solid waste and recyclable material
- Commercial municipal solid waste and recyclable material

The Nexus facility will receive both recyclable and non-recyclable materials. The materials that typically can be sent for reuse or recycling include brush, yard and wood waste, Construction and Demolition (C&D) debris, and inert materials (including aggregates), white goods and other metals. Non-recyclable materials could include MSW, tramp materials or any of the materials described above should a market not be available, the material deemed unacceptable and require disposal or reuse/recycling is not cost effective.

C&D material is a result of construction or demolition projects and it includes all materials that are directly or indirectly the by-products of construction work or that result from demolition of buildings and other structures, including, but not limited to, paper, cartons, gypsum board, wood, excelsior, rubber, plastics, metal, and aggregates. The majority of this material is recyclable, and recycled material markets are well-established for materials typically found in this

waste stream in the area (see Part I, Figure 1). Processing (sorting, consolidating, etc.) is necessary to produce commodities that achieve certain quality standards for reuse/recycling. Based on the experience of Nexus in collecting and processing C&D materials, only 10 to 20 percent of the C&D material received is not recyclable. This material will be separated from the marketable commodities and transferred to a Houston-area permitted landfill once deemed unacceptable for reuse or recycling.

The facility will not accept the following for processing or disposal:

- Items containing chlorinated fluorocarbons (CFC's), such as refrigerators, freezers, and air conditioners, will only be accepted at the site if the generator or transporter provides written certification that the CFC has been evacuated from the unit and that it was not knowingly allowed to escape into the atmosphere
- Liquid waste (any waste material that is determined to contain "free liquids" as deemed by EPA Method 9095 (Paint Filter Test), as described in "Test Methods for Evaluating Solid Wastes, Physical Chemical Methods" (EPA Publication Number SW-846)) shall not be accepted unless it is:
 - Bulk or noncontainerized liquid waste that is:
 - Household waste other than septic waste; or
 - Contained liquid waste and the container is a small container similar in size to that normally found in the household waste;
 - The container is designated to hold liquids for use other than storage; or the waste is a household waste.
- Regulated Asbestos Containing Materials
- Hazardous waste from conditionally exempt small-quantity generators that may be exempt from full controls under 30 TAC 335, Subchapter N, Household Materials Which Could Be Classified as Hazardous Wastes
- Class 1 industrial nonhazardous waste
- Untreated medical waste

- Municipal wastewater treatment plant sludges, other types of domestic sewage treatment plant sludges, and water-supply treatment plant sludges
- Septic tank pumping
- Grease and grit trap wastes
- Wastes from commercial or industrial wastewater treatment plants; air pollution control facilities; and tanks, drums, or containers used for shipping or storing any material that has been listed as a hazardous constituent in 40 Code of Federal Regulations (CFR) Part 261, Appendix VIII but has not been listed as a commercial chemical product in 40 CFR §261.33(e) or (f)
- Slaughterhouse wastes
- Dead animals
- Drugs, contaminated foods, or contaminated beverages, other than those contained in normal household waste
- Pesticide (insecticide, herbicide, fungicide, or rodenticide) containers
- Discarded materials containing asbestos
- Incinerator ash
- Soil contaminated by petroleum products, crude oils, or chemicals in concentrations of greater than 1,500 milligrams per kilogram total petroleum hydrocarbons; or contaminated by constituents of concern that exceed the concentrations listed in Table 1 of §335.521(a)(1) (relating to Appendices)
- Waste from oil, gas, and geothermal activities subject to regulation by the Railroad Commission of Texas when those wastes are to be processed, treated, or disposed of at a solid waste management facility authorized under this chapter

- Waste generated outside the boundaries of Texas that contains:
 - Any industrial waste;
 - Any waste associated with oil, gas, and geothermal exploration, production, or development activities; or
 - Any item listed as a special waste in this paragraph;
- Lead acid storage batteries
- Used-oil filters from internal combustion engines

6.1.1 Measures for Controlling Prohibited Wastes

Procedures to detect and control the receipt of prohibited wastes include:

1. Informing facility customers of prohibited wastes by posting one or more signs at the facility entrance listing prohibited wastes.
2. Providing customers (regular, one-time or occasional) with a written list of prohibited wastes.
3. Informing all drivers of incoming waste hauling vehicles that have indicated they will deliver waste to the facility by:
 - Posting one or more signs at the facility entrance listing prohibited wastes.
 - Providing all vehicle drivers and transfer station operators with a written list of prohibited wastes.
4. Facility personnel training and activities
 - Training for appropriate facility personnel responsible for inspecting or observing incoming loads to recognize regulated hazardous waste and polychlorinated biphenyl (PCB) waste.
 - Maintaining records of all inspections.
 - Notification of the TCEQ of any incident involving a regulated hazardous waste or a PCB waste.
 - Remediation of any regulated hazardous waste or PCB waste discovered at the facility in accordance with §335.349.

Random visual inspections of incoming waste will be conducted. The following summarizes the inspection process:

6.1.2 Inspection Procedures

Facility personnel will be trained to inspect vehicles and identify regulated hazardous waste, PCB waste, and other prohibited wastes. At a minimum, Equipment Operators will be trained in inspection procedures for prohibited waste. The personnel will be trained on an on-the-job basis by their supervisors. Records of employee training on prohibited waste control procedures will be maintained in the site operating record. The personnel will be trained to look for the following indications of prohibited waste:

- Yellow hazardous waste or PCB labels
- DOT hazard placards or markings
- Liquids
- 55-gallon drums
- 85-gallon overpack drums
- Powders or dusts
- Odors or chemical fumes
- Bright or unusual colored wastes
- Sludges

If facility personnel identify any of the above indications with an incoming load, then that load will be directed to an area out of the flow of traffic, and the personnel will further assess the load. If the load is determined to contain prohibited waste or if there is any possibility that it may be prohibited waste, the load will be rejected and directed back to the generator. All employees will be diligent in looking for trucks bringing in waste loads from potential sources of prohibited waste such as industrial facilities, microelectronics manufacturers, electronic companies, metal plating industry, automotive and vehicle repair service companies, and dry cleaning establishments.

6.1.3 Health and Safety

Safety precautions and personal protective equipment shall be part of the random inspection process to allow for safe inspections. The supervisor shall provide recommendations in the written protocol for the site safety precautions to be taken during the inspection. Inspector(s) shall wear personal protective equipment that is appropriate to the waste being inspected. At a minimum the inspector(s) shall wear:

- gloves,
- work boots, and
- clothing which
- minimizes contact of waste with the skin (i.e., long sleeve shirt).

Additional personal protective equipment may be required if hazardous material are identified. These may include:

- eye protection,
- respirator with appropriate cartridge filters (i.e., organic vapor or particulate),
- uniform or cloth coveralls,
- head cover,
- spotter (safety) vest, and
- hearing protection.

6.1.4 Record-Keeping

All inspection records, training procedures, and notification procedures and records relating to prohibited waste will be maintained in the facility's operating record.

6.2 Special Waste Receipt

No special wastes will be accepted at the facility.

6.3 Facility-Generated Wastes

30 TAC §330.205

Wastes generated by the facility will be limited to: (1) liquid waste resulting from occasional washing of the tipping floor and operating equipment; and (2) minor solid waste generated from facility personnel and visitors collected in waste receptacles.

Liquid waste generated by the facility will be managed as described in the following section, Section 7.0 Contaminated Water Management. Solid waste generated at the facility will be processed or disposed at an authorized solid waste management facility.

7.0 CONTAMINATED WATER MANAGEMENT

30 TAC §330.207

All liquids resulting from the operation of the Transfer Station will be disposed of in a manner that will not cause surface water or groundwater pollution. Contaminated water will be collected and contained until properly managed. Contaminated water from received waste and from tipping floor washdown will be collected and stored onsite in a storage tank with either built-in or external secondary containment. The storage tank will be manufactured for liquid storage and will have a minimum capacity of 5,000 gallons. The tank will be coated per manufacturer instructions as an aid against corrosion. Off-site discharge of contaminated waters will be made only after approval under the Texas Pollutant Discharge Elimination System authority.

This Transfer Station does not use leachate or gas condensate for mining processes, nor does it process grease trap waste, grit trap waste, septage, or mobile liquid waste, therefore §330.207(c) and (d) do not apply.

Wastewaters discharged to a treatment facility permitted under Texas Water Code, Chapter 26 will not:

1. interfere with or pass-through the treatment facility processes or operations
2. interfere with or pass-through its sludge processes, use, or disposal
3. otherwise be inconsistent with the prohibited discharge standards, including 40 Code of Federal Regulations Part 403, General Pretreatment Regulations for Existing and New Source Pollution

Final disposition of the contaminated water will be by permitted discharge into an existing sanitary sewer line at the site, for treatment at an authorized wastewater treatment plant. As a contingency, Nexus will have the ability to truck-haul wastewater to a permitted waste-water treatment plant. The daily effluent design standard for oil and grease concentration leaving the facility and entering the public sewer system will not exceed the concentration established in the wastewater discharge permit pretreatment limit.

8.0 STORAGE REQUIREMENTS

30 TAC §330.209

All solid waste will be stored in such a manner that it does not constitute a fire, safety, or health hazard or provide food or harborage for animals and vectors, and shall be contained or bundled so as not to result in litter.

An on-site storage area for source-separated or recyclable materials will be provided that is separate from the tipping floor or process area. These materials will be stored in separate bins, roll-off boxes or transfer-trailers. Control of odors, vectors, and windblown waste from the storage area will be maintained.

9.0 RECEIPT OF LARGE ITEMS

Items classified as large, heavy, or bulky will not be accepted for disposal but may be recycled.

These items include, but are not limited to, air conditioner units, metal tanks, large metal pieces, and automobiles which cannot be incorporated in the regular transfer trailer. If specifically destined for recycling, these items as well as white goods and other used appliances will be accepted and consolidated in an area adjacent to the processing building. The owner or operator will remove the items from the facility often enough to prevent these items from becoming a nuisance and to preclude the discharge of any pollutants from the area.

Appliances, which once contained CFCs, will be visually inspected to confirm that they have been drained of CFCs prior to being processed for recycling (in accordance with 40 Code of Federal Regulations §82.156(f), as amended).

10.0 APPROVED CONTAINERS

30 TAC §330.211

All solid wastes containing food wastes will be stored in covered or closed containers that are leak proof, durable, and designed for safe handling and easy cleaning. Reusable containers will be maintained in a clean condition so that they do not constitute a nuisance and to retard the harborage, feeding, and propagation of vectors. Non-reusable containers will not be used. Containers that are emptied manually will be capable of being serviced without the collector coming into physical contact with the waste. Containers that are mechanically emptied will be designed to prevent spillage or leakage during storage, handling, and transport.

11.0 RECORDKEEPING AND REPORTING REQUIREMENTS

30 TAC §330.219

A copy of the registration, the approved registration application and all other related or required plans or documents will be maintained at the facility during the active life of the site and shall be considered a part of the operating record of this facility. In addition, information and data shall be recorded, as appropriate, in the operating record to be retained at the site during the active life of the site. Upon request by the TCEQ, all such documents will be made available for inspection.

The following records will be kept, maintained and filed as part of the facility operating record. Log books and schedules may be used.

- Access Control Inspection and Maintenance
- Waste Screening Records
- Daily Litter Inspection and Pickup (including adjacent roadways)
- Windblown Waste and Litter Control Operations
- Dust Nuisance Control Efforts
- Access Roadway Regrading
- Salvaged Material Storage Nuisance Control Efforts
- Fire Occurrence Notices

In addition to the plans and documents listed above, the information in Table IV-5 will be recorded and retained in the operating record. This information will be placed in the operating record within seven working days of completion or upon receipt of analytical data, as appropriate.

Table IV-5: Operating Record

Records To Be Maintained	Rule Citation
1. All location-restriction demonstrations	§330.219(b)(1)
2. Inspection records, training procedures and notification procedures relating to excluding the receipt of regulated hazardous waste and PCB waste	§330.219(b)(2)
3. Closure plans and any monitoring, testing, or analytical data relating to closure requirements	§330.219(b)(3)
4. All cost estimates and financial assurance documentation relating to financial assurance for closure	§330.219(b)(4)
5. Copies of all correspondence and responses relating to the operation of the facility, modifications to the permit/registration, approvals, and other matters pertaining to technical assistance	§330.219(b)(5)
6. All documents, manifests, trip tickets, etc. involving Class 2 or 3 non-hazardous industrial waste	§330.219(b)(6)
7. Any other document(s) as specified by the approved registration or by the TCEQ	§330.219(b)(7)
8. Alternative schedules and notification requirements if applicable	§330.219(g)
9. Records on a monthly basis to document the relevant recycling percentage of incoming processed waste, quarterly solid waste summary reports and the annual solid waste summary reports by March 1 st summarizing recycling activities and percent of recycled incoming waste for past calendar year	§330.219(b)(9)
10. Inspection records and training procedures relating to fire prevention and facility safety	§330.221
11. Access control breach and repair notices	§330.223
12. Record of alternative operating hours if applicable	§330.229(b)

The signatories to any reports submitted to the TCEQ will be in compliance with the conditions listed in §330.219(c). All information contained in the operating record shall be furnished upon request to the TCEQ and will be made available for inspection at any time, as required in §330.219(e). The owner will retain all information contained within the operating record and any required plans for the life of the facility, in accordance with §330.219(f).

12.0 FIRE PROTECTION

30 TAC §330.221

Fire Protection Plan

The following steps are taken regularly at the facility by designated personnel to prevent fires:

- Operators will be alert for signs of burning waste such as smoke, steam, or heat being released from incoming waste loads.
- Equipment used to move waste will be routinely cleaned through the use of high pressure water or steam cleaners. The high pressure water or steam cleaning will remove combustible waste and caked material which can cause equipment overheating and increase fire potential.
- Smoking is not permitted near the tipping floor.

Procedures in the Event of a Fire

Staff will take the following steps if a fire is discovered:

- Contact the Local Fire Department by calling 911.
- Alert other facility personnel.
- Assess extent of fire, possibilities for the fire to spread, and alternatives for extinguishing the fire.
- If it appears that the fire can be safely fought with available fire fighting devices until arrival of the Local Fire Department, attempt to contain or extinguish the fire.
- Upon arrival of Local Fire Department personnel, direct them to the fire and provide assistance as appropriate.
- Do not attempt to fight the fire alone. Do not attempt to fight the fire without adequate personal protective equipment. Be familiar with the use and limitations of firefighting equipment available onsite.

Fire Fighting Methods

Fire fighting methods for burning solid waste include smothering the waste, separating burning material from other waste, or spraying with water if available from an on-site source. Small fires might be controlled with hand-held extinguishers.

If a fire occurs on a vehicle or piece of equipment, the equipment operator will bring the vehicle or equipment to a safe stop. If safety of personnel will allow, the vehicle will be parked away from fuel supplies, uncovered solid wastes, and other vehicles. The engine will be shut off and the brake engaged to prevent movement of the vehicle or piece of equipment.

Water Supply

A pressurized water supply will be maintained on-site.

Fire Equipment

The facility will be equipped with fire extinguishers of a type, size, location, and number as recommended by the local fire department. Each fire extinguisher will be fully charged and ready for use at all times. Each extinguisher will be inspected on an annual basis and recharged as necessary. A qualified service company will perform these inspections, and all extinguishers will display a current inspection tag. Inspection and recharging will be performed following each use. All waste management equipment and vehicles will be equipped with fully charged fire extinguishers.

Fire Protection Training

Training of on-site personnel in firefighting techniques, fire prevention, response, and the fire protection aspects of the SOP will be provided, by established professionals, on an annual basis. Personnel will be familiar with the use and limitations of firefighting equipment available onsite. Records of this training will be included in the operating record for the facility.

TCEQ Notification

After any fire (related to waste management activities that cannot be extinguished within 10 minutes of discovery) occurs, the TCEQ regional office will be contacted. The notification to the regional office will include:

- Contacting by telephone as soon as possible, but no later than 4 hours following fire discovery, and
- Providing a written description of the cause and extent of the fire and the resulting fire response within 14 days of fire detection.

The facility will provide to the appropriate regional office as much information as possible regarding the fire and fire-fighting efforts, as soon as possible after the fire occurs.

The fire prevention and fire control procedures for the facility will be revisited following the occurrence of a significant fire to determine if modifications are warranted.

13.0 ACCESS CONTROL

30 TAC §330.223

Public access will be controlled to minimize unauthorized vehicular traffic, unauthorized and illegal dumping, and public exposure to hazards associated with waste management. Controlled access will be obtained by chainlink and metal screening fences and gates.

The main point of access to the site by vehicular traffic is by means of the main entrance on Cunningham Road. A fence with a lockable gate will be installed, and truck traffic will be physically routed through the currently existing roof structure for entrance processing. The exterior gate will be closed and locked during non-operating hours. The remainder of the site will be enclosed by chainlink and metal screening fence that connects to the Cunningham Road frontage fence. The chainlink and metal screening fence will be at least eight feet in height throughout. When the main entrance gate is opened, any person or vehicle entering the site will be within view of Nexus personnel at the check-in facility. Nexus personnel will not allow any unauthorized entry or deposition of solid waste or hazardous materials. A sign, indicating the type of site, the hours and days of operation, and the registration number will be located at the entrance through which wastes are received. The entrance gate and the type and location of the perimeter fencing are shown on the Facility Layout (Part III, Figure 1). Perimeter fences will be inspected at least on a quarterly basis. Records of these inspections are required maintenance and will be kept in the site's operating record.

When there is an access breach, the commission's regional office, and any local pollution agency with jurisdiction that has requested to be notified, must be notified within 24 hours of detection. The breach must be temporarily repaired within 24 hours of detection and must be permanently repaired by the time specified to the commission's regional office when it was reported in the initial breach report. If a permanent repair can be made within eight hours of detection, no notice to the commission's regional office is required. Otherwise, notification is required to the commission's regional office when a permanent access control breach repair is completed.

The existing site entrance is a paved asphalt driveway. The entrance road, and all interior access roads leading to the unloading areas, will be all-weather roads able to accommodate the expected traffic flow. Only vehicles authorized by the manager, personnel vehicles, and authorized haul vehicles will have access beyond the facility entrance. Signage will direct users to the entrance of the facility. Additional signage within the facility will provide direction to unloading areas.

Access roads are two-way roads designed to accommodate the turning radii of all vehicles entering the site. Parking areas for employees and users of the facility will be provided. Equipment will be parked adjacent to the unloading areas. Waste will be unloaded directly onto the tipping floor of the processing building by the collection vehicles. If the load contains mostly one type of material, it may be unloaded directly to the appropriate storage bin or transfer trailer onsite. Once the roll-off containers have unloaded on the tipping floor, the loads will be sorted by hand by sorting personnel. All unauthorized waste will be returned to the generator. If an item is too contaminated or deteriorated to have value for recycling or if the material has no economic value as a recyclable commodity or has no practical reuse potential, the material will then become MSW, and will be placed in a transfer trailer and hauled to the nearest properly permitted landfill when the transfer trailer reaches capacity. The selectively separated recyclable commodities will be stored temporarily in separate storage bins, transfer trailers or roll-off containers onsite. When a sufficient quantity of a particular commodity has accumulated, it will be hauled to market. The Process Flow Diagram (Part III Figure 2) provides a graphical overview of the proposed process.

Dust will be controlled as needed by spraying the haul roads and frequent equipment routes with water using the on-site water truck or water hoses. Any mud that may accumulate will be removed as soon as is practicable.

14.0 UNLOADING OF WASTE

The process area for the unloading of solid waste will be confined to as small an area as practical within the processing building in order to maintain the appearance of the site, minimize windblown litter, and minimize stormwater contamination. The minimum building size will be 150 feet in length by 100 feet in width. The maximum size of the building will be 200 feet in length by 100 feet in width. The building may be constructed in one or more phases.

The unloading of waste in unauthorized areas is prohibited. Any waste deposited in an unauthorized area will be removed immediately and managed properly. The Equipment Operators will monitor all incoming loads of waste. The supervisor and/or his designated representative will be on duty during regular operating hours to direct unloading of waste. Appropriate signs will be used to indicate where vehicles are authorized to unload. The facility is not required to accept any solid waste that may cause problems in maintaining full and continuous compliance with the registration.

The Equipment Operators will be familiar with the rules and regulations governing the various types of waste that can or cannot be accepted into the facility. All site personnel will also have a basic understanding of both industrial and hazardous waste and their transportation and management requirements.

Certain wastes are prohibited from management at the facility. Prohibited wastes are described in Waste Acceptance and Analysis section (Section 8.0) of this plan. The unloading of prohibited wastes at the facility will not be allowed. The operator will take necessary steps to ensure compliance. Personnel have the authority and responsibility to reject unauthorized loads, have unauthorized material removed by the transporter, and/or assess appropriate surcharges, or have the unauthorized material removed by on-site personnel and otherwise properly managed by the facility. Any prohibited waste not discovered until after unloading will be placed back in the offending transporter's vehicle, if possible, or otherwise returned promptly to the transporter or generator of the waste. The driver may be advised where the waste may be managed or disposed of legally and will be responsible for the proper handling of this rejected waste.

In the event the unauthorized waste is not discovered until after the delivery vehicle is gone, the waste will be segregated and controlled as necessary. The supervisor will make an effort to identify the entity that deposited the prohibited waste and have them return to the facility and properly dispose of the waste. In the event that identification is not possible, the supervisor will notify the TCEQ and seek guidance on how to remove and dispose of the waste as soon as practical. A record of unauthorized material removal will be maintained in the operating record.

Only those persons operating vehicles that comply with the following requirements will be authorized by the supervisor to transport waste to and from this facility:

1. All vehicles and equipment used for the collection and transportation of waste will be operated, and maintained to prevent loss of waste material and to limit health and safety hazards to facility personnel and the public.
2. Collection vehicles and equipment will be maintained in a sanitary condition to preclude odors and fly breeding.
3. Collection vehicles not equipped with an enclosed transport body will use other devices such as nets or tarpaulins to preclude accidental spillage and wind blown litter.

Facility personnel will keep vigilant watch for compliance with operating requirements. Signs with directional arrows and/or portable traffic barricades will help to restrict traffic to designated unloading locations. In addition, rules for waste receipt and prohibited waste will be prominently displayed on signs at the facility entrance.

15.0 SPILL PREVENTION AND CONTROL

30 TAC §330.227

Storage and processing areas are designed to control and contain spills and contaminated water from leaving the facility. All storage and processing areas are covered and are therefore not subject to runoff from direct rainfall. The only contaminated water is wash water. The wash water is controlled within the building and the transfer-trailer loading area with sloped floors that drain to a contaminated water storage tank onsite. The contaminated water will be pumped to the sanitary sewer line onsite for disposal, or hauled by truck to a permitted wastewater treatment plant. In all cases final disposal of the contaminated water will take place prior to the tank reaching 70% capacity.

16.0 FACILITY OPERATING HOURS

30 TAC §330.229

The facility will be authorized to accept waste and operate equipment and transport vehicles 24 hours a day, 7 days a week. Since the facility will be permitted to operate 24 hours a day, no alternate or emergency operating hours need to be specified.

17.0 FACILITY SIGN

30 TAC §330.231

A conspicuous sign measuring a minimum four feet by four feet will be maintained at the public entrance to the facility. The sign states, in letters at least three inches high, the following information:

- Name of Facility
- Type of MSW Facility: Type V Transfer Station
- Authorized by TCEQ Registration Number: MSW-xxxxx
- Hours of Operation: 24 hours per day, 7 days a week

The posted hours of operation may differ from the authorized hours based on requirements set by facility management.

The sign will be visible and readable from the facility entrance. The sign, or other signs meeting the requirements listed above, will state that the following wastes are prohibited from receipt at the facility: liquid waste, hazardous waste and Class 1 industrial waste. It will also include a 24-hour contact number and an instruction to call 911 in case of an emergency. In addition, the sign will indicate what types of wastes are accepted for transfer and for recycling.

Facility rules will be posted on the site signs. Facility rules will include, but are not limited to, the following:

- All loads must be covered prior to entering the facility.
- Loading/unloading in designated areas only.
- Follow all posted signs.
- Park in designated areas only.

18.0 CONTROL OF WINDBLOWN MATERIAL AND LITTER

30 TAC §330.233

Windblown material and litter will be controlled through several methods, including proper unloading procedures, perimeter fences, facility fencing, the orientation of the facility to the prevailing wind direction, and adequate staffing. Personnel will police the facility, including fences, access roads, and the entrance gate, every operating day to pick up and return windblown material and litter to the facility and perform such other litter control measures, as necessary. The entrance signs will advise that all vehicles hauling waste must be covered.

Litter control fences may be placed as necessary around the tipping floor or other areas to contain blowing trash. Other litter control methods will be used if necessary to control excessive blowing litter.

Perimeter fences will provide additional safeguards against litter leaving the facility. Perimeter fences are located around the registration boundary.

19.0 MATERIALS ALONG THE ROUTE TO THE FACILITY

30 TAC §330.235

The Gate Personnel will take steps to encourage that vehicles hauling waste to the facility are enclosed or provided with a tarpaulin, net, or other means to effectively secure the load in order to prevent the escape of any part of the load by blowing or spilling. The Gate Personnel or Site Supervisor will take actions such as posting signs, reporting offenders to proper law enforcement officers, adding surcharges, or similar measures.

The Nexus Material Recovery and Transfer Station will use its own forces or contract labor for litter removal. They will collect spilled materials for a distance from the site entrance for 2.0 miles along Cunningham Road on days the transfer station accepts waste. All vehicles will be required to ensure their loads are covered in compliance with vehicle laws.

19.1 Facility Access Roads

30 TAC §330.237

On-site roads will be all-weather surfaced (gravel, asphalt or concrete) to provide wet-weather operation capability. The roads will be free draining and passable in two directions, and free of excessive ruts. Tracked mud and associated debris at the entrance to the facility and on the public roadway at the entrance to the facility and trash on public roadways will be removed at least once per day on days when mud and associated debris are being tracked onto the public roadway, to the extent that mud can be reasonably considered to be associated with facility operations.

Dust from on-site and other access roadways will not become a nuisance to surrounding areas. A water source and necessary equipment will be provided to prevent nuisance dust. All on-site and other access roadways will be maintained on a regular basis to minimize depressions, ruts, and potholes.

20.0 NOISE POLLUTION AND VISUAL SCREENING

30 TAC §330.239

Conducting the waste separation/recycling and transfer operations within a partially enclosed building will provide noise pollution control. The walls on the three sides of the building will direct noise from operations to the interior of the site. The building is located on an industrial site, and is immediately surrounded by other industrial sites, as well as Nexus-owned property to the north, west and east. In addition, the tree and brush covered terrain at the property boundaries will provide additional mitigation of any noise that may emanate from the operation. Nexus operations have never generated any noise complaints in the past.

Visual screening of the proposed facility will be provided by the three walls of the processing building, perimeter fencing and the vegetation that exists at the property boundaries. All operations dealing with municipal solid waste are to take place in the processing building that is enclosed on three sides. Perimeter fencing will be a combination of 8-foot tall chain link fencing and 8-foot tall metal screening fencing.

These features along with the use of mufflers on equipment and proximity to other adjacent land uses, provides adequate visual screening and control of noise pollution.

21.0 OVERLOADING AND BREAKDOWN

30 TAC §330.241

The design capacity of the solid waste facility will not be exceeded during operation. The facility will not accumulate solid waste in quantities that cannot be processed within such time as will preclude the creation of odors, insect breeding, or harborage of other vectors. If such accumulations occur, additional solid waste will not be received until the adverse conditions are abated. The facility does not accept grease trap waste, grit trap waste, septage, or liquid waste, therefore §330.241(a)(1) and (2) do not apply.

The facility is sized to accept 5,000 cubic yards per day with a maximum temporary storage of 5,375 cubic yards based upon 43 transfer trailers loaded with an average of 125 cubic yards of material each. Once this storage volume has been received, no additional material will be accepted until an equal volume is removed. The anticipated amounts of waste to be accepted during normal operations will be significantly less than this amount (refer to the Waste Acceptance Plan). The operation is an open-top load facility, which limits the amount of equipment that would affect operations at capacity. Front-end loaders will be used to move waste and recyclables to the appropriate transfer trailers, storage bins or roll-off containers. If a front-end loader does break down, waste will either be stored until it is repaired or until the remaining loader catches up with material removal or the facility will obtain other equipment.

If a significant work stoppage should occur, the owner or operator will restrict additional solid waste receipt. If the work stoppage is anticipated to last long enough to create objectionable odors, insect breeding, or harborage of vectors, steps will be taken to remove the accumulated solid waste from the facility to an approved backup storage, processing, or disposal facility within 72 hours.

22.0 SANITATION

30 TAC §330.243

The waste separation/recycling facility and transfer station will receive MSW, C&D and recyclable material and is designed to facilitate appropriate cleaning. Litter and wind-blown materials will be contained by the site fencing and picked up for disposal as necessary. Surface water run-on will be prevented by a raised tipping floor surface and storage areas. In addition, all material stored onsite will be stored in roll-off boxes or transfer trailers and covered, which will further prevent surface water run-on. Floors shall be constructed of reinforced concrete to facilitate cleaning and scrubbing, and will be swept and cleaned with pressure hoses as necessary to maintain a reasonably clean environment. Water will be available at various locations to allow for use of pressure hoses. Working surfaces that have come into contact with waste will be washed down once per week, at the completion of processing activities. During times that the facility is in continuous operation, the floor will be swept daily.

After cleaning in designated processing areas, the water will be collected in floor drains located both on the tipping floor and in the transfer-trailer loading area. The collected water will be stored in a contaminated water storage tank onsite or discharged directly to a sanitary sewer. Stored contaminated water will be pumped to the sanitary sewer line onsite for disposal, or hauled by truck to a permitted wastewater treatment plant. In all cases final disposal of the contaminated water will take place prior to the tank reaching 70% storage capacity. Wash waters shall not be allowed to accumulate on site without proper treatment to prevent the creation of odors or an attraction to vectors. All wash waters shall be collected and disposed of in an authorized manner.

23.0 VENTILATION AND AIR POLLUTION CONTROL

30 TAC §330.245

Air emissions from the facility will not cause or contribute to a condition of air pollution as defined in the Texas Clean Air Act. The facility will obtain authorization, under Subchapter U of 30 TAC 330 (relating to Standard Air Permits for Municipal Solid Waste Landfill Facilities and Transfer Stations).

No burning of wastes is proposed for this processing facility. This facility will be operated in a manner that includes routine waste removal and facility cleaning to avoid the generation of objectionable odors becoming a nuisance.

The facility will be designed and operated to provide adequate ventilation for odor control and employee safety. The operator will prevent nuisance odors from leaving the boundary of the facility. If nuisance odors are found to be passing the facility boundary, the facility operator will suspend operations until the nuisance is abated or immediately take action to abate the nuisance.

The owner or operator will employ the following measures for odor control:

- on-site buffer zones
- building ventilation measures
- extremely odorous or dusty material will not be accepted for processing

Ventilation of the proposed processing building will be accomplished by the fact that the building will not be a fully enclosed structure. The building will be open on the south side for truck access from the access ramp. In addition, the other three sides will have various doors and windows that will remain open during operations. The building will be a commercially produced metal building of the type sometimes referred to as "pre-engineered". Roll-offs, transfer trailers, and other containers will be kept covered to the extent possible to minimize odors. In addition, the site is surrounded by other industrial facilities. Prevailing winds at the site are from the southeast (see wind rose – Part II

Figure 1), which will direct odor into the barrier on the north side of the tipping floor, thereby keeping odor to the interior of the site. As noted previously, Nexus owns property directly to the north, west and east of the building. All odorous material will be processed quickly on the tipping floor to minimize the amount of time that the odorous material is exposed. The material will be stored onsite for a maximum period of 72 hours in storage bins, roll-offs, or trailers, which will be covered in order to minimize odor. Extremely odorous material will not be accepted for processing.

Any ponded water at the facility will be controlled to avoid becoming a nuisance. In the event that objectionable odors do occur as a result of ponding, appropriate measures will be taken to alleviate the condition. These measures may include elimination of the ponded water and regrading of the area to prevent future ponding.

Other measures that will be taken to control air pollution at the facility include:

- No open burning will occur at the site except as approved by TCEQ.
- Accidental fires are controlled as outlined in the Fire Protection Plan.
- Weekly wash down of all surfaces that have come into contact with waste.
- Waste materials that contain strong, objectionable odors will not be accepted at the facility.

24.0 HEALTH AND SAFETY

30 TAC §330.247

Facility personnel will be trained in the proper procedures for maintaining health and safety at the Material Recovery and Transfer Station.

25.0 EMPLOYEE SANITATION FACILITIES

30 TAC §330.249

Potable water and sanitary facilities will be provided for all employees and visitors. Potable water is available from two water wells on adjacent property owned by Nexus. Portable toilets will be provided and sanitary facilities in the adjacent buildings will be made available.

26.0 DISEASE VECTOR CONTROL

The need for extensive vector control (control of rodents, birds, flies, and mosquitoes) will be minimized through proper site operation, including prompt removal of loaded transfer trailers, roll-off and other storage containers. If insects or rodents become a problem, insecticides and/or pesticides will be used to eliminate the vector problem. If necessary, a licensed pest control professional will be utilized to apply pesticides for control of vectors, ensuring that proper chemicals are used and that they are properly applied. Any ponded water at the site shall be controlled to avoid its becoming a nuisance and attracting vectors.

27.0 SALVAGING AND SCAVENGING

Scavenging shall not be authorized. (30 TAC 330.3 (135) defines scavenging as the uncontrolled and unauthorized removal of materials at any point in the solid waste management system.)

For the purposes of this SOP, salvaging would be considered the controlled and authorized removal of materials from the working floor of the transfer station as potential recycled materials. However, as previously stated, “salvaging” will only be allowed insofar as Nexus will be recovering at least 10% of the total incoming waste stream for reuse or recycling and it does not jeopardize safety nor create public health nuisances at the site. Recyclable materials will be temporarily stored on site in storage containers such as roll-off boxes or transfer trailers and will be removed from the site in a timely manner to prevent becoming a nuisance, to preclude the discharge of any pollutants from the area and to prevent excessive accumulation of the material at the site. Materials that will neither be collected for reuse/recycling nor salvaged include all Class I Industrial or Special wastes as they will not be accepted. Pesticide, fungicide, rodenticide, and herbicide containers will not be salvaged unless being salvaged through a State supported recycling program.