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Romic Environmental Technologies Corp.

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Chandler, Arizona

TSD Facility

Section F

Procedures to Prevent Hazards

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F PROCEDURES TO PREVENT HAZARDS

F1 SECURITY MEASURES

Facility security procedures and equipment are in place to prevent unknowing access by persons and to minimize the possibility of unauthorized entry. Administrative activity areas not directly involved with the transfer, storage or treatment of hazardous waste are not located within hazardous waste management areas. Authorized visitors must sign in and be escorted, or under observation, by plant personnel while in the facility's hazardous waste management areas. Contractors that have completed Romco's contractor training may work unescorted.

F1.1 BARRIER AND MEANS TO CONTROL ENTRY

The west side of the facility is completely surrounded by an eight-foot-high chain link fence with redwood slats. The fence is topped with three-strand barbed wire. The east side of the facility is surrounded on 3 sides by a barbed wire topped chain link fence, and a block wall topped with barbed wire along Allison Road. Exits and entrances along Allison Road are located to control traffic flow, limit access to the active area (i.e., waste and product handling area) on the west side of the facility, and provide emergency escape. The waste and product handling area, located on the west half of the facility, has electronically operated entrance and exit gates that normally remain closed. There are three additional chained and locked gates in the west side perimeter fence. The east side gates remain open during normal business hours. Figure F-1 show the secured access and gate locations. The plant is illuminated at night by automatic outdoor lighting as an additional security measure.

Access to the west side (active area) of the facility is restricted to waste transportation vehicles, authorized personnel, and escorted visitors. The main entrance/exit gates to the west side of the facility are at Allison Road. These gates are normally closed, and are opened electronically by remote control. Key employees are assigned garage door opener-type transmitters that activate the gates. Lab personnel can observe vehicles in front of the entrance gate via mirror, and open the gate from within the receiving office. The pedestrian gate at the west side main entrance is open during normal operating hours, and padlocked closed when the facility is closed.

F1.2 WARNING SIGNS

Signs printed with the legend, "Danger – Do Not Enter – Unauthorized Personnel Keep Out" are posted on the gates and along the perimeter fence. English is the predominant language in the area, and therefore warning signs are posted in this language. There are also several signs indicating the same message in Spanish. The signs are visible from any approach to the facility and are legible from a distance of 25 feet. They are attached to the fence and gates at a height of approximately five feet.

F2 INSPECTION PLAN

The inspection plan is intended to protect human health and the environment by detecting, preventing, and responding to malfunctions, deterioration, operator errors, and unplanned discharges. The inspection schedule, attached as Table F-1, is based on operating experience and engineering knowledge.

F2.1 INSPECTION REQUIREMENTS

In general, facility inspections are conducted to prevent, detect, or respond to environmental or human health hazards. Inspections address the following items: safety and emergency equipment, security equipment, operational and process equipment, container and tank storage areas, loading/unloading areas, and tank systems.

The inspection schedules in Table F-1 indicate the types of items inspected, the types of problems looked for during inspections, and the frequency of the inspections. The frequency of inspection is based on the rate of possible deterioration of equipment and structures, and the probability of an environmental or human health incident if an unsatisfactory condition (e.g., deterioration, malfunction, or operator error) goes undetected between inspections. The following paragraphs generally describe the inspection schedule.

Safety and emergency equipment is checked weekly, monthly, semiannually, annually, and/or biannually as scheduled, and as used. Equipment is also checked for access and operability in the event of an emergency.

Security equipment is inspected monthly to prevent unauthorized access to the facility, ensure warning signs remain posted, and ensure the facility is properly lighted.

Operational equipment is inspected before use to ensure safe operation. Regularly scheduled servicing via the onsite preventive maintenance program, or service contractors, is performed to maintain the equipment in good operational condition.

Sumps and secondary containment structures provided for all tank systems, loading/unloading areas, and treatment systems are visually inspected daily to detect leaks, spills, or accumulated liquids. Accumulated liquids typically are removed by the end of the 8-hour shift in which they were detected. If it is not possible to remove accumulated liquids during the same shift, the liquid will be removed within 24 hours of discovery. Removal of precipitation will be completed within 24 hours after the end of a rainstorm. All secondary containment systems are inspected weekly to detect the presence of cracks or deterioration of concrete and the accumulation of dirt or other materials that may prevent the inspection of concrete.

Hazardous waste container storage and processing areas are inspected weekly for leaks, spills, proper stacking arrangements, aisle spacing, and the segregation of incompatible materials. Also, containers are inspected for any signs of physical deterioration or corrosion, and labels are checked to ensure they are visible and legible.

Hazardous waste tank storage and processing systems, including tanks, process equipment, loading/unloading areas, secondary containment structures, and ancillary equipment, are inspected daily for signs of corrosion, weld breaks, punctures, spills, and secondary containment erosion or deterioration. Procedures to assess the structural integrity of tanks over time (e.g., corrosion, cracking, wall thinning) are addressed in Section F2.4, Tank Condition Assessment.

In cases where specialized outside contractors are needed to perform specific inspections (e.g., sprinkler or alarm systems, tank thickness), the results will be reported on the contractor's inspection forms, checked off on the Romic inspection form, and copies retained in the operating record for a minimum of three years.

F2.2 INSPECTION LOG

Inspection forms are used to document information gathered during inspections of facility equipment and operational areas. Example inspection forms are provided in Appendix F-1. The forms are designed to ensure that all items are inspected as required by the inspection schedules in Table F-1. Each form has been developed to assess a certain aspect or area of the facility such as: safety and emergency equipment, security equipment, operational equipment, container storage areas, tank systems, and waste treatment units. The forms note the date and time of inspection and the printed name and signature of the inspector. The forms also contain a detailed list of specific equipment and areas to inspect, specific items to note during the inspection, and a space for the inspector to note whether or not the observation points are in satisfactory condition. There is also space for the inspector to note any comments and/or a maintenance work request number generated. The inspection forms are modified as necessary to accommodate operational or equipment changes at the facility.

F2.3 REMEDIAL ACTION

If an inspection item is found to be in an unsatisfactory condition, the following remedial action procedures are initiated.

If the inspector notes an item that requires an immediate response (e.g., leaking container or tank), the situation will first be brought under control in accordance with procedures described in Section G, Contingency Plan. After the situation has been controlled, the incident and the corrective action will be noted on the inspection form. A maintenance request form may also be completed if necessary.

If an immediate response is not required, the inspector notes and describes any unsatisfactory conditions in the comment column of the inspection form. Upon completion, the inspection forms are reviewed by the appropriate department management or designee. Unsatisfactory conditions that do not require repair or maintenance of equipment (e.g., torn labels, fire extinguisher out of place) will be corrected within 24 hours from when they were detected. For unsatisfactory conditions that require repair or maintenance of equipment (e.g., crack in secondary containment, damage to security fence), a priority level is determined and a numbered maintenance request form is issued which outlines the appropriate repair/remedial action. The maintenance request number is noted on the inspection form.

An emergency response level (Priority E) indicates the repair/remedial action is to be initiated immediately and closely monitored until completion. An urgent response level (Priority U) indicates the repair/remedial action is to be initiated within one day and closely monitored until completion. A routine response level (Priority R) for repair/remedial action is typically expected to be completed within six days, however physical or operational constraints (e.g., availability of replacement parts or equipment) may require longer routine repair/remediation times. A long-term response level (Priority B) is for projects that do not present an immediate threat to human health or the environment and the repair is not critical to routine operations. These projects are generally expected to be completed within 1 month.

The maintenance request forms specify corrective actions/repairs and note any supplies or equipment used to ensure replacements are ordered. An example of a maintenance work request form is provided in Appendix F-2.

Copies of the inspection forms and maintenance work request forms are kept in the facility operating record for a minimum of three years.

F2.4 TANK CONDITION ASSESSMENT

Tanks used to store or treat hazardous waste are periodically assessed to ensure that they retain their structural integrity and will not collapse, rupture, or fail. The frequency of tank integrity assessments is based on several factors, including:

- The age of the tank system,
- Materials of construction,
- Type of corrosion or erosion protection used (where applicable),
- Historical and/or estimated data on corrosion rates,
- The nature of the material stored/treated, and
- The threat to public health posed by a release of the contents due to failure.

The assessment schedule and procedures are adequate to detect cracks, leaks, corrosion or erosion.

Existing regulated tanks undergo integrity assessments on a biennial basis (once every two years). The scheduled tank integrity assessments are conducted by certified assessors who follow tank inspection guidelines specified in American Petroleum Institute (API) 653. These assessments consist of ultrasonic shell thickness measurements and an extensive visual examination. All tank assessments are reviewed and certified by a NDE Level III examiner. Records of all tank assessments are maintained in the facility operating record for a minimum of three years.

Newly installed or upgraded tanks will be certified as fit for their intended use by an independent, qualified, professional engineer prior to being placed into service. Tanks and tank systems undergoing

major repairs will also be certified by a professional engineer. Romic will submit a copy of each such tank system certification to the Environmental Protection Agency.

F2.4.1 TANK ENTRY PROCEDURES

When a tank is inspected or repaired from the inside, the tank must be emptied and a confined space entry procedure followed in accordance with Article 120 and 146 of 29 CFR 1910. These procedures are outlined below.

Prior to entry all free liquids and sludges are pumped from the tank to another compatible tank. The tank is isolated by employing proper Lockout/Tagout procedures to include (but not limited to): locking, blanking or removing all directly connected fill, suction, purge treating or other lines and piping to and from the tank. Once the tank has been isolated it is cleaned and purged of all residues and air-ventilated.

Following this step, the atmosphere inside the tank is tested for oxygen deficiency, combustibility and toxicity to check for safe entry conditions. Under current practices tank entry does not proceed unless the oxygen content is $\geq 19.5\%$ and $< 23.5\%$, and the atmosphere within the tank is less than 10% of the Lower Explosive Limit (LEL). A multi-gas detector is also used to screen or check for toxic conditions in the tank. Toxic conditions are deemed to exist if the airborne concentration of contaminants is above the OSHA-established Permissible Exposure Limit, the ACGIH-established Threshold Limit Value, or other industry or agency established limit. If toxic conditions exist, entry is only conducted with the approval of the Romic Environmental Health & Safety Manager, or a trained and certified confined space entry supervisor.

A continuous flow of fresh air is pumped through the tank (bottom to top or top to bottom) at all times, and the air is continuously monitored for oxygen deficiency, CO, H₂S and combustibility. Personnel will exit the tank if 10% of the LEL is reached. If required, additional toxicity checks will be performed.

All employees engaged in a confined space entry shall adhere to confined space entry procedures and are required to wear the appropriate protective equipment. Supplied air respirators may be utilized if the conditions within the tank require the use of an external breathing air source. During confined space entry, entrants wear a safety harness with lifeline, while rescue personnel wear a harness and have all applicable rescue equipment standing by. During tank repair, all gas cylinders or welding machines are left outside of the tank. Torches, hoses, cables and electrodes may be taken inside the tank. Electrical equipment and tools shall be selected in accordance with the hazard of the situation.

Additional equipment at the job site may include fire extinguishers, extra rope, harnesses and supplied air respiratory protective equipment.

F3 PREPAREDNESS AND PREVENTION MEASURES

F3.1 EQUIPMENT REQUIREMENTS

F3.1.1 INTERNAL AND EXTERNAL COMMUNICATIONS

The plant is equipped with a facility-wide telephone system, which is tested by daily use and maintained as needed by contractors. Each telephone is capable of direct dialing 9-911 to the Gila River Emergency Response Network, which includes Gila River Fire/Paramedic and Police Departments, as well as Gila River EMS ambulances.

Hand-held two-way radios are utilized by facility personnel for communicating during routine waste management activities or emergency situations. The radios are tested by daily use, and are maintained as needed by service contractors.

Emergency alarm air horns are situated throughout the process and storage areas of the facility for use in signaling an emergency situation or need for evacuation. Long blasts of the air horn(s) signal personnel to evacuate the area. Air horns are tested monthly by facility personnel, and replaced annually or after use.

The fire foam/sprinkler system is provided with an audible flow alarm at the maintenance area, and an electronic flow notification alarm monitored continuously by a contracted service which contacts designated facility personnel and the Gila River Fire Department in the event of system flow. The monitoring service is contacted to deactivate and reactivate the alarm prior to weekly flow testing.

Several of the process systems at the facility have alarm panels with audible warning alarms. The alarms sound to alert operator(s) whenever control parameters of the process equipment have deviated from preset operating conditions or reached a desired set point. This can indicate that the system may be approaching an unsafe operating condition if allowed to persist. The alarm panels identify the warning condition of the affected system. Alarms on equipment are set to allow operators sufficient time to make adjustments or shut down processing equipment before operating conditions become upset or dangerous. Alarms are tested and serviced periodically through the Preventive Maintenance program.

F3.1.2 EMERGENCY EQUIPMENT

Equipment used for response to spills and other incidents is readily available throughout the facility, and inspected regularly for access and operability in the event of an emergency situation. Refer to Table G-2 for a description and location of incident response equipment, Figure G-3 for plot plan locations of the equipment, and Appendix F-1 for inspection forms. Examples of completed inspection forms are provided in Appendix F-4.

Most spill response equipment is in normal operational use at this facility. Spill response equipment including absorbent materials, overpack drums, supplied air and cartridge respirators, protective clothing and numerous hand tools, are stored in various locations throughout the facility and are used routinely.

These are used for regular operational tasks, not just for spills. Mobile equipment in normal use such as portable pumps, forklifts and vacuum tanker trucks are available for use in emergencies as well. These equipment and supplies are restocked as necessary, tested by normal use, and maintained as necessary or through the Preventive Maintenance Program schedules.

Equipment that can be used for decontamination after a spill event is normally in operations use at this facility. Operations equipment used for decontamination can include vacuum tanker trucks which can remove all liquids from a surface or containment area, hoses and pumps configured to provide water or steam for clean up and to remove resulting clean up fluids, power washer(s) which can provide soap or other cleaning solutions as well as water and steam, and safety showers to decontaminate personal protective equipment prior to discarding or cleaning.

Portable multi-use fire extinguishers are placed throughout the facility, in accordance with the Uniform Fire Code (UFC). Fire suppression equipment consisting of AFFF foam and sprinklers are installed in the active covered process and storage areas of the facility. (Fire suppression is discussed further in Section F3.1.3). Containment requirements for fire suppression systems are based upon containment calculations. First aid kits and incident response equipment and supplies are readily available, and inspected weekly. Emergency showers and eye wash stations are installed throughout the facility, and tested monthly by facility personnel.

F3.1.3 WATER AND FIRE CONTROL

The facility has been equipped with automatic AFFF/water sprinkler fire suppression systems in the active covered treatment and storage areas of the facility. All the drum storage and processing buildings have been equipped with automatic foam sprinkler systems that also have manual override capability. The fire suppression systems are tested and maintained yearly by a service contractor. Tests of the sprinkler system diesel pump are conducted weekly. Containment systems that are subject to firewater discharge meet the containment requirements specified in the UFC.

There are approximately 35 portable fire extinguishers readily available throughout the facility. These are typically 30-lb. Dry Chemical Extinguishers and can be used on Type A, B, and C fires. Two 300-lb. Dry Chemical Extinguishers are located in strategic locations throughout the plant. Additionally there are two PKP/AFFF suppression units located to the east and west of the center tank storage/operations area. There is also a foam cannon that faces the railspur area. All extinguishers are inspected monthly and serviced annually or as needed by a service contractor. See Figure G-3 for types and placement of fire control equipment at the facility.

F3.2 AISLE SPACE REQUIREMENTS

The facility is inspected for adequate aisle space, allowing unobstructed movement of personnel, fire control/spill response equipment, and access to facility exits and entrances. Containers are stacked with a minimum of 24 inches of aisle space to facilitate movement of emergency equipment. Detailed storage area layouts are included in Section D.

F3.3 ARRANGEMENTS WITH LOCAL AUTHORITIES

Arrangements have been made with Gila River emergency response agencies as to the type of response and the nature of the hazards they may encounter at the facility. The Gila River Fire Department, which also provides paramedic services, is the primary responding agency to Romic. Gila River emergency response (Fire Department, Police, Paramedics, Ambulance) is available by dialing 9-911 from any plant phone. Appendix F-3 is the Memoranda of Agreement (MOA) with Gila River for emergency services, Chandler Regional Hospital, and the Arizona Department of Public Safety.

In general, the first responding Battalion Chief from the Gila River Fire Department acts as the Incident Commander for an emergency at Romic, the Arizona Department of Public Services for an emergency involving a truck on a state highway, and the local police/sheriff for an emergency on local/county roads. However, in the last case, the local police/sheriff typically will give up the command to a recognized qualified HAZMAT team.

An external emergency response is initiated by calling 9-911 or, in the case of a fire, automatically or manually by various alarms.

Local Emergency Response Agencies

Gila River Fire Department

Doug Jones, District Fire Chief
5002 N. Maricopa road
Chandler, AZ 85226
(520) 796-5900

Gila River Department of Environmental Quality

Dan Marsin, Hazardous Waste Program Manager
P.O. Box 97
Sacaton, AZ 85247
(520) 562-2234

Gila River Police Department

P.O. Box 97
Sacaton, AZ 85247
(520) 562-3361

Gila River Tribal Emergency Response Commission

Beverly Begay, EPCRA Coordinator
P.O. Box 97
Sacaton, AZ 85247
(520) 562-2234

Chandler Regional Hospital

475 S. Dobson Road

Chandler, AZ 85224

(480) 963-4561

F4 PREVENTION PROCEDURES, STRUCTURES AND EQUIPMENT

F4.1 UNLOADING/LOADING OPERATIONS

Bulk waste materials are transported to and from the facility in tank trucks and roll-off bins, while containerized wastes are typically transported in trailers, flatbeds and vans. Rail car tankers are loaded for waste transport offsite. Facility personnel involved in the unloading/loading of waste are instructed in the proper operational procedures and use of equipment necessary to prevent hazards (see Section H, Personnel Training). Spill containment and clean up materials are located in close proximity to all truck and tank car loading and unloading areas. All waste loading and unloading operations take place on concrete surfaces to facilitate spill clean up.

F4.2 RUN-OFF PREVENTION

Run-off prevention procedures and procedures for removal of accumulated liquids are described in Sections D1 for container storage areas, and Section D2 for tank and process containment areas. Generally, the active area of the facility is sloped to blind sumps to contain all precipitation falling within the area, preventing run-off. Storm water from all blind sumps in sloped containment areas on-site is collected and removed to a tank. The collected storm water is tested to determine if it can be released, or if it needs to be treated.

F4.3 GROUND AND SURFACE WATER PROTECTION

Degradation of ground and surface water quality at the facility is prevented through operation of hazardous waste management units within secondary containment to prevent releases to the environment or endangerment of public health. Discussion of secondary containment systems can be found in Sections D1 for container storage areas, and Section D2 for tank and process areas. Romic has procedures in place to mitigate, control, and clean-up releases of waste materials. Refer to Section G for Contingency Plan details.

Potable water is provided to the Romic facility by the Lone Butte Industrial Park service system, which provides fire water service as well as water for potable and industrial use from the Lone Butte water main. There are 5 backflow prevention valves on Romic's water lines which prevent cross contamination of the piping systems. The backflow prevention devices are tested on an annual basis by a contractor. Romic's drinking water is additionally filtered through reverse osmosis water coolers in several locations throughout the site.

F4.4 EQUIPMENT AND POWER FAILURE

In the event of an electrical power failure, plant personnel are instructed to shut down all electrical operations until normal power is restored. Valves are closed and transfer pumps shut down to eliminate possible spills. There would be no flow of process materials or steam within the distillation units, and no danger of a system overflow or overheating. The facility has a portable diesel powered generator that can supply power for emergency lighting or other uses.

Backup power is not needed for the following safety equipment because they do not have any electrical components: showers and eyewash stations, fire extinguishers, spill containment and clean up supplies. The fire suppression system has its own back up diesel powered pump system, which is inspected and tested weekly. Emergency coordinators are equipped with cellular phones that allow them to contact outside support in the event of a power outage.

In the event of a power failure, liquids can be removed from tanks, containment areas and sumps if necessary by utilizing a vacuum tanker truck. Additional equipment is available from rental companies in near by communities, other Romco divisions, and local emergency response agencies.

F4.5 PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE) is provided to prevent undue exposure of facility personnel to hazardous waste. Personnel protection is accomplished through engineering controls (plant layout and design), administrative controls (waste management equipment and practices, employee training), and use of personal protective clothing and equipment. A medical surveillance program is utilized to monitor the effectiveness of employee protection measures.

Waste management systems are designed to minimize exposure of personnel handling waste. Liquid waste is stored/treated in closed-roof tanks. Waste is transferred within tank systems using fixed-in-place piping systems, or hoses that are inspected before use. Container lids are kept closed except when adding to, removing from, or sampling the waste.

All non-administrative personnel are required to complete training in the proper management and safe handling of hazardous waste, and in the use, selection, and proper fit of PPE. A listing of training programs is described in Section H, Personnel Training.

Each employee is provided with safety equipment for his/her personal use. This equipment, which is kept at the facility, may include: hard hats, safety glasses/goggles, acid/organic cartridge or multi constituent full face respirators, ear protection (foam plugs), cotton and/or various types of chemical resistant coveralls or equivalent, full PVC rain suits, appropriate gloves (Neoprene, PVC), and steel-toed boots. Emergency equipment available at the facility includes: first aid kits, eye wash and shower stations, and spill response kits.

While engaged in normal loading, unloading, transfer, or cleaning operations, personnel are directed to wear steel-toed boots, chemical-resistant gloves, eye/face protection, respirators as necessary, and appropriate coveralls where a splash hazard exists. All personnel within the active portion of the facility are required to wear as a minimum: eye protection, steel-toed shoes and hard hats in designated areas.

F4.6 PROCEDURE TO MINIMIZE RELEASES INTO THE ATMOSPHERE

The purpose of air emission control and monitoring is to minimize the releases of Volatile Organic Compounds (VOCs) to the atmosphere. The description, monitoring, inspection, and recordkeeping practices for minimizing emission control at the Romic facility are discussed in Sections D1, D2, E5, M, and N of this permit application.

A detailed spreadsheet has been assembled to track the monitoring requirements in accordance with 40 CFR 264 Subparts AA, BB, and CC. Due to the comprehensive nature of the Excel spreadsheet, a disc has been attached to this document as Appendix F-5. This disc contains a printout of all points monitored in accordance with Subparts AA, BB and CC.

F5 PREVENTION OF REACTION OF IGNITABLE, REACTIVE, AND INCOMPATIBLE WASTES

Precautions to prevent the ignition or reaction of ignitable, reactive and incompatible wastes through proper handling, mixing, and treatment procedures, and the use of compatible equipment and systems, are described in the following sections.

F5.1 PRECAUTIONS TO PREVENT IGNITION OR REACTION OF IGNITABLE OR REACTIVE WASTES

Container management practices and a description of how UFC buffer zone requirements are satisfied for containerized waste materials are described in Section D1.

The section below describes the handling techniques employed by the Facility when storing or treating ignitable or reactive wastes in tanks.

Ignitable Wastes

Ignitable waste is accepted in tanks and containers for storage, distillation and/or blending of alternative fuels. Ignitable waste will be consolidated in tanks with compatible materials. All ignitable waste is stored in tank farms or warehouses away from ignition sources. "Danger-Flammable Liquids No Smoking" signs are posted prominently at the hazardous waste storage area entrance, and smoking is confined to one specific area south of the lunchroom, away from storage and treatment areas. The entire facility, with the exception of the one designated smoking area, is a No Smoking Facility.

Hazardous waste storage tanks containing potentially ignitable wastes are adequately located away from: (a) a property line that is or can be built upon and (b) the nearest side of any public way or from the nearest public building, as required by the Uniform Fire Code's (UFC) buffer zone requirements for ignitable wastes.

The following precautions are in place at the Facility to prevent the accidental ignition of ignitable waste:

For each tank that stores or treats ignitable waste the tank is equipped with:

- Conservation vents,
- Submerged fill lines.

To prevent the generation of sparks through static electricity, all steel structures are commonly grounded. This, combined with transfer grounding procedures (as recommended in NFPA 77 Recommended Practice on Static Electricity), will significantly reduce the possibility of generating a static charge during pumping operations involving flammable liquids.

All pumps, motors, and electrical equipment are grounded at the motor control center via a grounding grid beneath the motor control foundation. All connections are welded to assure proper integrity. All equipment is commonly grounded.

Furthermore, all pump motors are explosion proof and in many situations air operated diaphragm pumps are used to eliminate the possible generation of a spark. All process equipment uses standard safety equipment and design features such as rupture discs and emergency venting to prevent explosions.

Reactive Wastes

Reactive wastes identified in 40 CFR 261.23(a)(1), (2), (3), (4) and (5) are accepted at the Facility in quantities of 55-gallons or less and will not be stored or treated in tanks. Reactive wastes identified in 40 CFR 261.23(a)(6), (7), and (8) are specifically restricted from acceptance at the facility. Certain reactive wastes, such as aqueous cyanide solutions that can be treated for cyanide destruction, may be treated in treatment tanks 308 and 309, which are part of the wastewater treatment system.

Reactive waste will be segregated from any incompatible material while managed within the Facility.

Special Precautions for Potentially Incompatible Wastes

Incoming waste is tested for compatibility with waste already in the tank prior to being transferred. Waste incompatibility is determined by the procedures described in Section C7.3. Waste profile and check-in procedures are discussed in Section C4, Procedures for Receiving Off-Site Waste.

Incompatible wastes or materials are not stored in the same tank, or in an unwashed tank that previously held an incompatible material. Before a tank can be used for storage of a material that is incompatible

with residue in the tank, the tank is cleaned of residual waste. Specific incompatible wastes may be mixed during the neutralization process under controlled conditions.

F5.2 GENERAL PRECAUTIONS FOR HANDLING IGNITABLE OR REACTIVE WASTE AND MIXING OF INCOMPATIBLE WASTE

Prior to acceptance for storage or treatment, wastes are subject to chemical and/or physical analysis to determine, based on operational constraints and permit limitations, if the waste can be safely handled at the facility. The procedures for pre-acceptance and waste profiling are described in Section C 4, Procedures for Receiving Off-Site Wastes.

Materials suspected of being incompatible or reactive are tested, prior to consolidation or blending, by mixing representative samples of the waste streams in a prescribed laboratory procedure. Noted reactions include changes in temperature, pH and color, gas evolution, and precipitation (see Section C 5, Sampling and Analysis).

In conjunction with treatment activities, waste streams are sampled and analyzed to verify safe treatment procedures, process tolerance limits, and to ensure the equipment is operated within design specifications. Sampling, analysis, treatment processes, and tolerance limits are described in Section C.

Tanks and containers are separated, based on compatibility, by secondary containment systems and appropriate distances according to UFC spacing and DOT requirements. Tanks at the facility are labeled according to the NFPA 704 Standard System For the Identification of the Hazards of Materials for Emergency Response.

Employees who perform job duties applicable to the management of ignitable, reactive, and incompatible wastes are trained in proper handling, operational methods, and emergency procedures (see Section H, Personnel Training). In the event of an incident involving reactive materials, facility personnel will respond by staying clear of the incident until the nature of the hazard has been evaluated and the determination has been made that the area is safe to enter for response activities. The procedures of Section G will be followed.

TABLE F-1

INSPECTION SCHEDULE

**TABLE F-1
INSPECTION SCHEDULE**

AREA/EQUIPMENT	SPECIFIC ITEM	TYPE OF PROBLEM; EXAMPLES	FREQUENCY
Safety & Emergency Equipment	Standard Industrial Absorbent (50 bags)	Out of sock, low inventory	Monthly/as needed
	Overpack (Salvage) drums	Item out of stock, low inventory	Monthly
	Emergency shower and eyewash	Water pressure, leaking, drainage	Monthly
	Protective clothing & gloves	Low inventory; holes, normal wear and tear	Monthly
	Chemical cartridge respirators with appropriate cartridges	Seal, spent chemical absorbent (cartridge)	Monthly/after each use
	SCBA	Mask Cracked, low air supply	Monthly/after each use
	Flame Ionization Detector (FID) or similar instrumentation	Calibration	Daily – when used, prior to use
	First aid kits	Items out of stock	Monthly/after each use
	Fire water flow alarm system	Power failure	Annually
	Evacuation Alarm Air Horns	Corrosion, malfunction	Monthly
	Telephone system	Power failure	Monthly, through use
	2-way radios	Low battery, malfunction	Monthly, through use
	Fire Hoses	Good condition, no tears, damage	Monthly
	Fire Hydrants/FDC	Clear access, no obstructions	Monthly
	Fire extinguishers	Need recharging	Monthly/after each use
AFFF Foam Unit	Foam degradation	Biennially	

**TABLE F-1
INSPECTION SCHEDULE**

AREA/EQUIPMENT	SPECIFIC ITEM	TYPE OF PROBLEM; EXAMPLES	FREQUENCY
Waste Storage Tank Areas: A&B, C, D Future Waste Storage Tank Areas E, F Future Treatment Tank Area G	Containment area: Dike Wall and berms, base or foundation	Cracks, deterioration, uneven settlement, erosion, wet spots	Daily
	Sump area	Standing liquid – cracks, erosion	Daily
	Piping, fittings, flanges, other connections	Leaks, loss of metal thickness, corrosion or deterioration	Daily
	Valves	Leaks, loss of metal thickness, corrosion or deterioration, locks in place	Daily
	Standing liquid in containment area	Observe for presence	Daily
	Pumps	Leaks, wet spots	Daily
	Ladders	Damaged, structural stability	Annually
Waste Storage Tanks: * indicates tanks not included in Part B Permit Tanks 101-105, 112, 200*, 201-204*, (Tank Farm A&B) Tanks 121-124, 113, 132, 136, 211-222* (Tank Farm C&D) Future Tanks 108,109, 137, 138, 401-403, 411-413, 310-303, 308, 309 311-313, 321-323	Tank shell	Corrosion, cracks, buckles, bulges	Daily
	Tank bottom (cone)	Corrosion, cracks, buckles, bulges	Daily
	Leaks – general	General observation for evidence of leaks	Daily
	Level indicators, if so equipped	No reading, unexpected reading	Daily
	Tank roof	Seal malfunctions, corrosion	Annually
	Subpart CC Visual Inspection of Fixed Roof Tanks	Closures not secured; cracks, gaps, or holes in shell	Annually
	Conservation (Varec) Vents	Confirmation of no detectable emissions (< 500ppm)	Annually
	Shell thickness	Corrosion, metal loss, erosion	Biennially

**TABLE F-1
INSPECTION SCHEDULE**

AREA/EQUIPMENT	SPECIFIC ITEM	TYPE OF PROBLEM; EXAMPLES	FREQUENCY
Waste Treatment Units: Fractionation Column, Vac Pot Distillation, Thin Film Evaporation, Aerosol Can Depressurization Unit Future Fuel Blending (Tanks 137 & 138) Future Neutralization (Tanks 308 & 309)	Ladders	Damaged, structural stability	Annually
	Foundation	Cracks, uneven settlement, erosion, wet spots	Weekly
	Pipe connections	External corrosion, cracks, distortions	Daily
	Tank shell	Corrosion, cracks, buckles, bulges	Daily
	Tank roof	Seal malfunctions, corrosion	Daily
	Tank bottom	Corrosion, cracks, buckles, bulges	Daily
	Leaks – general	General observation for leaks	Daily
	Monitoring Equipment (pressure gauges, level indicators)	Not operational; readings out of range, indicating problem with unit operation or monitoring equipment	Daily
	Vents	Plugging, waste discharge	Annually
	Pumps	Leaks, wet spots	Daily
	Piping, fittings, flanges, other connections	Leaks, loss of metal thickness, corrosion or deterioration	Daily
	Valves	Leaks, corrosion or deterioration, locks in place	Daily
	Subpart CC Visual Inspection of Fixed Roof Tanks	Closures not secured; cracks, gaps, or holes in shell	Annually
Alarm Panels	Audible alarms not working, lamps burned out	Weekly	

**TABLE F-1
INSPECTION SCHEDULE**

AREA/EQUIPMENT	SPECIFIC ITEM	TYPE OF PROBLEM; EXAMPLES	FREQUENCY
Waste Treatment Units – Secondary Containment Areas: Fractionation area, Vac Pot & Thin Film area, Aerosol Can Depressurization unit area	Containment area: Dike Wall and berms, base or foundation	Cracks, deterioration, uneven settlement, erosion, wet spots	Daily
	Sump area	Standing liquid - cracks, erosion	Daily
	Standing liquid in containment area	Observe for presence	Daily
Loading and Unloading Areas: Rail Car/Rolloff Bin Area, Tank Areas A, C, D, Distillation Area Future Tank Areas E, F, G	Containment area: Dike Wall and berms, base or foundation	Cracks, deterioration, uneven settlement, erosion, wet spots	Daily
	Sump area	Standing liquid – cracks, erosion	Daily
	Standing liquid in containment area or trough	Observe for presence	Daily
Subpart BB Equipment	Pumps (except pumps designated “no detectable emissions”)	Observe for pump seal leaks	Weekly
	Pumps (except pumps designated “no detectable emissions”)	Instrument reading of 10,000 ppm or greater; liquids dripping from pump seal	Monthly
	Pumps designated “no detectable emissions”	Exceed “no detectable emissions” level (500 ppm)	Annually
	Valves (except valves designated “no detectable emissions”)	Instrument reading of 10,000 ppm or greater	Monthly, Quarterly if two consecutive leak-free months
	Valves designated “no detectable emissions”	Exceed “no detectable emissions” level (500 ppm)	Annually
	Pressure Relief Devices	Instrument reading of > 500 ppm	After evidence of pressure release

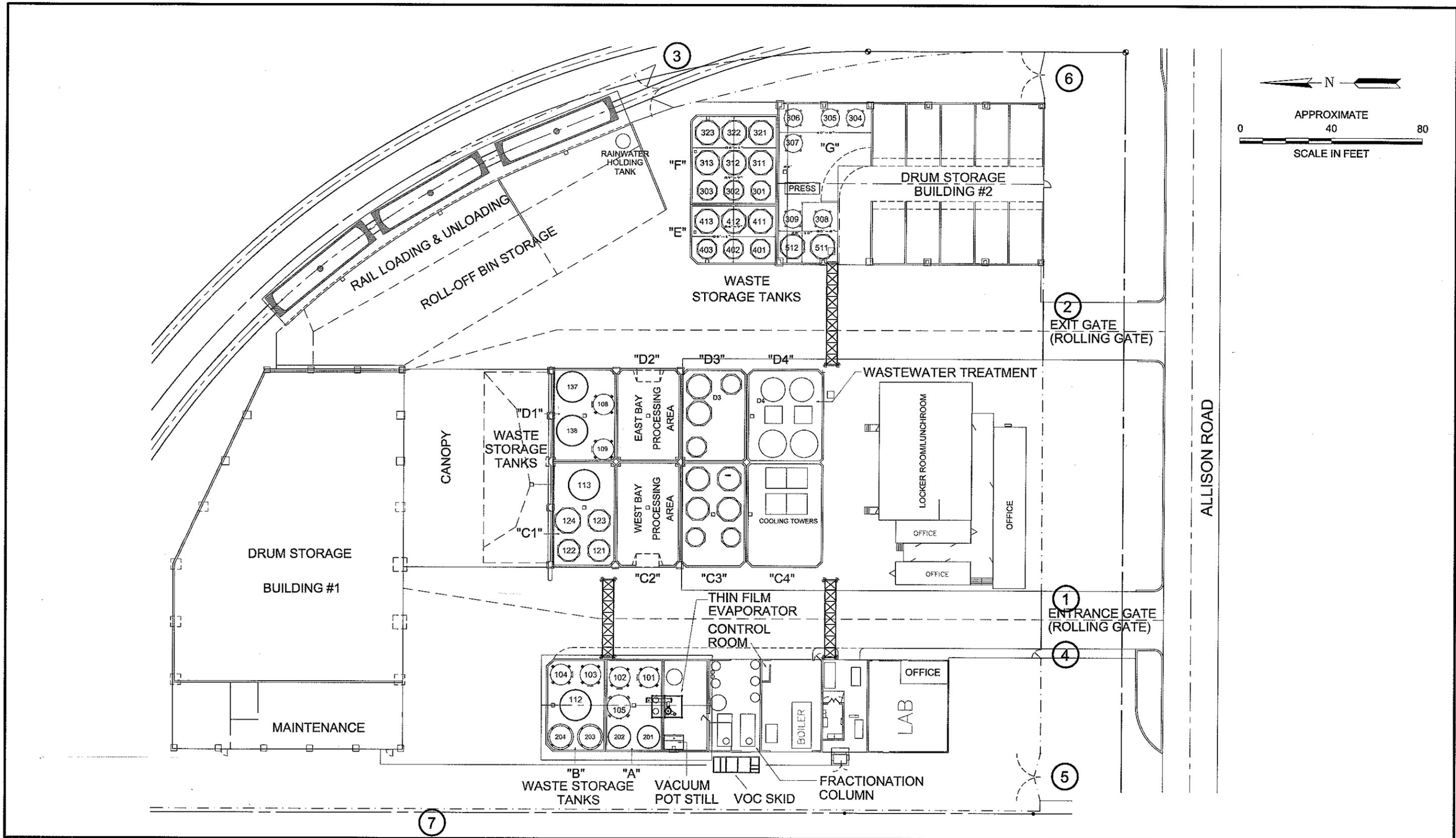
**TABLE F-1
INSPECTION SCHEDULE**

AREA/EQUIPMENT	SPECIFIC ITEM	TYPE OF PROBLEM; EXAMPLES	FREQUENCY
Subpart CC equipment	Conservation vents (Varecs)	Exceed "no detectable emissions" level (500 ppm)	Annually
Closed-vent (vapor collection) system	Vent piping and sealed connections	Visual evidence of leakage, damage, or other leakage	Annually
	Monitor vapor collection system components other than sealed connections (e.g., valves)	Instrument reading greater than 500 ppm	Annually
VOC System and Carbon Beds	Operating parameters (PLC screen and chart record)	Recorder operating, Parameter out of normal operating range: condenser temperature too high (normal range – 5C to +10C during chill cycle) air/vapor flow rate 0 to 120 scfm compressor pressure 100 psia	Daily
	Valves, flanges, pumps	Leaks	Daily
	Vent flow meters	Reasonable flow readings with flow, no readings with no flow	Daily
	Carbon beds	Instrument reading after Bed 4 greater than background	Daily
Drum Storage Buildings: Warehouse 1 & Warehouse 2	Container stacking	Aisle space, height or stacks, proper segregation	Weekly
	Storage of ignitables and reactives	Ignitable or reactive container within 50 ft of property boundary	Weekly
	Sealing of containers	Open lids or bung holes.	Weekly
	Labeling of containers	Hazardous waste labels – incomplete, torn, missing, incorrect	Weekly
	Containers	Corrosion, leaks, structural defects, waste on exterior, incompatible	Weekly
	Containment area: Dike Wall and berms, base or foundation	Cracks, deterioration, uneven settlement, erosion, wet spots, absorbent to be cleaned up	Weekly

**TABLE F-1
INSPECTION SCHEDULE**

AREA/EQUIPMENT	SPECIFIC ITEM	TYPE OF PROBLEM; EXAMPLES	FREQUENCY
Security Devices	Facility fence	Corrosion, damage to chain link or barbed wire	Semiannually
	Warning Signs	Missing, non-legible from 25'	Monthly
	NFPA (704) Labels	Missing, needing replacement	Monthly
	Gates	Mechanical malfunctions	Monthly
	Locks (gates)	Missing lock	Monthly
	Outdoor Lighting	Mechanical malfunctions	Semiannually
Operational Equipment Includes equipment in normal use that can also be used for emergency operations and decontamination	Portable Transfer Pumps	Check for leaks, proper operation, check oil level Verify all units are in working order	Daily – When used Weekly
	Portable Transfer Hoses	Check for wear, leaks in hose or at fittings	Daily – When used
	Fork Lifts	Low oil, low hydraulic fluid, low water, low tire pressure, non-functioning lights, horn, back up alarm	Daily – By shift when used
	Facility Air Compressor	Oil leaks, full of condensate Check for oil leaks, test safety valves, clean air filter	Daily – When used Monthly
	Facility Pumps (mounted)	Leaking, evidence of corrosion or damage Verify all units are in working order	When used Weekly
	Power washer	Leaking, evidence of corrosion or damage	Monthly
	Tanker trucks (vacuum transfer)	Tank condition, corrosion	Annually

FIGURE F-1
CONTROLLED ACCESS POINTS



REFERENCE: BASEMAP PROVIDED BY:
 **ROMIC**
 ENVIRONMENTAL TECHNOLOGIES CORP.
 ROMIC SOUTHWEST, CHANDLER, ARIZONA

- LEGEND:
- | | |
|--|---------------------------------------|
| ① Electrically Controlled Access (ENTRY) | ⑤ Controlled Access |
| ② Electrically Controlled Access (EXIT) | ⑥ Controlled Access |
| ③ Railroad Access | ⑦ Controlled Access (Fire Truck Only) |
| ④ Controlled Access (Personnel) | |

Controlled Access Points
 Romic - Southwest
 Chandler, Arizona



Figure F-1

APPENDICES

APPENDIX F-1

EXAMPLE INSPECTION FORMS

The forms included in this appendix are for example only. The information contained on the forms will be included on any version of the forms used for the same purposes, although the forms themselves may change in appearance.

ROMIC RCRA INSPECTION FORM

Date: _____

Pages 2 to 2 General Facility

Supervisor Signature: _____

Pages 3 to 6 Production

Supervisor Signature: _____

Pages 7 to 8 Warehouse

Supervisor Signature: _____

Pages 9 to 9 Field Services

Supervisor Signature: _____

Frequency (FREQ) Codes:

D = Daily

W = Weekly, on Tuesdays

M = Monthly, during second week of the month

S = Semi Annually, during April and October

Y = Yearly, during October

General Instructions:

Complete and compile full package daily.

ROMIC RCRA INSPECTION FORM

GENERAL FACILITY

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
SITE SECURITY				
Front gates operational	M			
Other gates locked securely	M			
Signs legible from 25 feet, NFPA Diamond ok	M			
Fence (walk the perimeter, no gaps, breaks, broken strands of barbed wire)	S			

EMERGENCY EQUIPMENT (refer to emergency equipment locations map in Contingency Plan)				
Emergency Showers and Eyewash Units (operating, sufficient flow)	M			
SCBA (adequate air supply/pressure, mask condition)	M			
Telephone System (operating properly)	M			
2-Way Radios (operating properly)	M			
Fire extinguishers (fully charged, seal intact)	M			
Fire hoses (in good condition, no tears or damage)	M			
Evacuation Air Horns (operating properly)	M			
Fire Hydrants (Clear access, no obstruction)	M			

SAFETY SUPPLIES				
First aid kits (adequate supply, condition)	M			
Absorbent (adequate supply—50 bags min.)	M			
Overpack Drums (adequate supply—20 min.)	M			
PPE (adequate supply, condition)	M			
Respirator cartridges (adequate supply, <u>end-of-service-life indicator ok</u>)	M			

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Printed Name:	Date/Time:
Signature p. 2 of 9	

ROMIC RCRA INSPECTION FORM

PRODUCTION

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
BOILER AREA: VOC System, Chiller, Boiler, Carbon Beds				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D			
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D			Note time rain ended:
VOC System (data recording system operating, parameters within specified ranges)	D			
Vent Flowmeters (readout reasonable; if no flow expected, readout is within +/- 1 scfm)	D			
Valves not leaking, closed and capped when not in use	D			
Flanges, other connections not leaking	D			
Pumps not leaking	D			

Tank Farms A & B: Tanks 101-105, 200, 201-204, 112				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D			
Containment Area (No evidence of leaks, cracks, gaps, damage)	D			
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D			Note time rain ended:
Condition of tanks (no leaks or excessive corrosion)	D			
Level indicators operating	D			
Valves not leaking, closed and capped when not in use	D			
Flanges, other connections not leaking	D			
Pumps not leaking	D			

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Printed Name:	Date/Time:
Signature	p. 3 of 9

ROMIC RCRA INSPECTION FORM

PRODUCTION

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
Tank Farms C, D: Tanks 121-124, 113, 132, 136, 211-222 (Tank Farm D will change with future addition of tanks 108, 109, 137, 138, and deletion of tanks 132 and 136)				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D			
Containment Area (No evidence of leaks, cracks, gaps, damage)	D			
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D			Note time rain ended:
Condition of tanks (no leaks or excessive corrosion)	D			
Valves closed and capped when not in use	D			
Sampling valves closed and capped	D			
Flanges, other connections not leaking	D			
Pumps not leaking	D			

Future Tank Farm E, F and Treatment Area G: Tanks 401-403, 411-413, 301-303, 308, 309, 311-313, 321-323				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D			
Containment Area (No evidence of leaks, cracks, gaps, damage)	D			
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D			Note time rain ended:
Condition of tanks (no leaks or excessive corrosion)	D			
Valves closed and capped when not in use	D			
Flanges, other connections not leaking	D			
Pumps not leaking	D			

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Printed Name:	Date/Time:
Signature p. 4 of 9	

ROMIC RCRA INSPECTION FORM

PRODUCTION

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	

Railspur Area: Storm Water Tank, Rail cars in Containment				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D			
Containment Area (No evidence of leaks, cracks, gaps, damage)	D			
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D			Note time rain ended:
Condition of tanks & rail cars (no leaks or excessive corrosion)	D			
Valves not leaking, closed and capped when not in use	D			
Flanges, other connections not leaking	D			
Pumps not leaking	D			

Canopy area				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D			
Containment Area (No evidence of leaks, cracks, gaps, damage)	D			
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D			Note time rain ended:
Pumps not leaking	D			

Printed Name:	Date/Time:
Signature	p. 5 of 9

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ROMIC RCRA INSPECTION FORM

PRODUCTION

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
Non-Hazardous Waste Tank Farm, Cooling Towers [not part of required RCRA Inspection]				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D			
Containment Area (No evidence of leaks, cracks, gaps, damage)	D			
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D			Note time rain ended:
Condition of tanks (no leaks or excessive corrosion)	D			
Valves not leaking, closed and capped when not in use	D			
Flanges, other connections not leaking	D			
Pumps not leaking	D			

Production Area: Column, Thin Filmer, Vac Pot				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D			
Containment Area (No evidence of leaks, cracks, gaps, damage)	D			
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D			Note time rain ended:
Monitoring Equip (pressure gauges, level indicators)	D			
Condition of process units (no leaks or excessive corrosion)	D			
Condition of tanks (no leaks or excessive corrosion)	D			
Valves not leaking, closed and capped when not in use	D			
Flanges, other connections not leaking	D			
Pumps not leaking	D			
<u>Alarm/Control panels functioning properly</u>	<u>D</u>			

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Printed Name:	Date/Time:
Signature	p. 6 of 9

ROMIC RCRA INSPECTION FORM

WAREHOUSE

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
Sampling Area (in Building 1)				
Containment Area (No evidence of leaks, cracks, gaps, damage)	W			
No spill residues or liquids on floor	W			
Aisle spacing adequate, in accordance with permit	W			
Containers stacked properly, within the lines	W			
Containers properly closed, ring tops secured, unless sampling	W			
Container condition (no leakers, bulgers, damaged drums)	W			
Container labeling (no labels missing, or damaged or torn so they are illegible)	W			
Incompatibles segregated	W			

Warehouse #1 (Building 1)				
Containment Area (No evidence of leaks, cracks, gaps, damage)	W			
No spill residues or liquids on floor	W			
Aisle spacing adequate, in accordance with permit	W			
Containers stacked properly, within the lines; no leaners; within height limit	W			
Containers properly closed, ring tops secured	W			
Container condition (no leakers, bulgers, damaged drums)	W			
Container labeling (no labels missing, or damaged or torn so they are illegible)	W			
No ignitables/reactives within the 50-ft. line.	W			
Incompatibles segregated	W			

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Printed Name:	Date/Time:
Signature	p. 7 of 9

ROMIC RCRA INSPECTION FORM

WAREHOUSE

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
Warehouse #2 (Building 2)				
Containment Area (No evidence of leaks, cracks, gaps, damage)	W			
No spill residues or liquids on floor	W			
Aisle spacing adequate, in accordance with permit	W			
Containers stacked properly, within the lines; no leaners; within height limit	W			
Containers properly closed, ring tops secured	W			
Container condition (no leakers, bulgers, damaged drums)	W			
Container labeling (no labels missing, damaged or torn so they are illegible)	W			
No ignitables/reactives within the 50-ft. line.	W			
Incompatibles segregated	W			

West Bay Processing Area: Aerosol Can Unit, Drum Crusher				
Containment Area (No evidence of leaks, cracks, gaps, damage)	W			
No spill residues or liquids on floor	W			
Aisle spacing adequate, in accordance with permit	W			
Aerosol can unit not leaking, liquid receiving drum not full, carbon beds intact	W			
Containers properly closed, ring tops secured, unless sampling	W			
Container condition (no leakers, bulgers, damaged drums)	W			
Container labeling (no labels missing, damaged or torn so they are illegible)	W			

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Printed Name:	Date/Time:
Signature p. 8 of 9	

ROMIC RCRA INSPECTION FORM

FIELD SERVICES

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
East Bay Processing Area				
Containment Area (No evidence of leaks, cracks, gaps, damage)	W			
No spill residues or liquids on floor	W			
Aisle spacing adequate, in accordance with permit	W			
Containers stacked properly, within the lines	W			
Containers properly closed, ring tops secured, unless sampling	W			
Container condition (no leakers, bulgers, damaged drums)	W			
Container labeling (no labels missing, damaged or torn so they are illegible)	W			

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Printed Name:	Date/Time:
Signature p. 9 of 9	

Temperature Readings

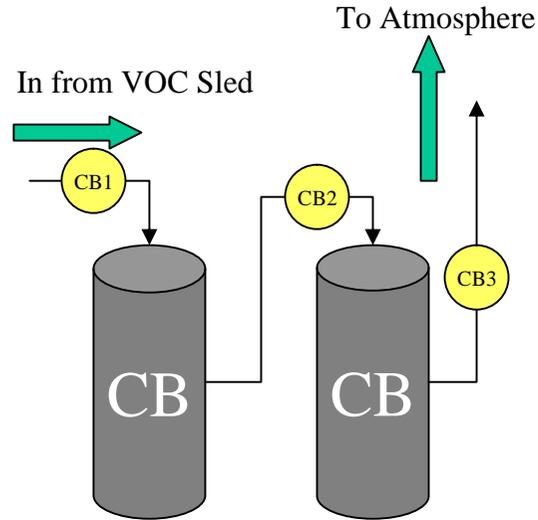
From main screen press the F3 key to get to the Temperature Display, then record the following temperatures:

Condenser #1: _____ °C

Condenser #2: _____ °C

Separator #1: _____ °C

Separator #2: _____ °C



Ensure vapors are being directed to the carbon beds when taking these readings

Procedures:

1. Find VOC Skid Control Panel.
2. Press the F1 key.
3. Ensure the VOC exhaust is routed to the Carbon Bed.
4. If icon is green and reads ATMOS, press icon to switch to Carbon Bed.
5. Wait 15 minutes before proceeding with the readings.

CB1 (before carbon beds)

1. Record Background
2. Locate Sample Port CB1(Marked in yellow)
3. Remove plug slowly to ensure positive flow
4. Place FID adjacent to sample port
5. Allow reading to stabilize
6. Record reading on Monitoring form
7. Replace sample plug
8. Go to sample port CB2

CB2 (between Carbon Bed 1 and Carbon Bed 2):

1. Locate Sample Port CB2 (Marked in yellow)
2. Remove plug slowly to ensure positive flow
3. Place FID adjacent to sample port
4. Allow reading to stabilize
5. Record reading on Monitoring form
6. Replace sample plug
7. Go to sample port CB3

CB3 (after Carbon Bed 2):

1. Place FID adjacent to atmospheric vent (Marked in yellow)
2. Allow reading to stabilize
3. Record reading on Monitoring form

Tester Initials: _____ Date/Time: _____

Background: _____ ppm **CB1(Pre):** _____ ppm

CB2(Mid): _____ ppm

Carbon Changeout Levels: **CB3(Post):** _____ ppm

NOTE: If breakthrough occurs from the first carbon bed, as indicated by a less than 95% reduction in measured VOC concentration across the bed, the first carbon bed will be changed out when the distillation processes are next shut down, but no later than 24 hours after detection. The second carbon bed will be placed in the position of the first carbon bed, and a fresh carbon bed placed in the second position. If breakthrough occurs from the second carbon bed, as indicated by a less than 95% reduction measured VOC concentration across the two-bed system, all distillation processes will be shut down as expeditiously as practicable, and both carbon beds replaced with fresh carbon. e.g. **CB1=1000ppm CB3=>50ppm 95 % reduction**

Notify Eric Fuller of any readings requiring carbon changeout as soon as practical.

APPENDIX F-2

EXAMPLE MAINTENANCE REQUEST FORM

The forms included in this appendix are for example only. The information contained on the forms will be included on any version of the forms used for the same purposes, although the forms themselves may change in appearance.

ORIGINATOR USE ONLY

Originator _____

 Work Location _____

Date Requested _____

Priority E-Emergency (Immediate)
 (Check One) U-Urgent (1 day)
 R-Routine (6 days)
 B-Backlog (>6 days)

Priority Class Safety
 Environmental
 Production

Subpart BB: Will this work:
 Yes Be issued to repair a Pump/valve/flange leak >1 drip (10,000 ppm) or: cause the replacement of a new valve/pump/flange under RCRA BB?

VOC TAG NUMBER(S)

*Contact Enviro. Prior to work.

Work Description: _____

Supervisor _____

FOR MAINTENANCE USE ONLY

Date Received _____

Shutdown Required Yes No

Estimated Manhours _____

 Supervisor Comments: _____

Permits Needed
Number
PSM
Will this work Request:

(check)

-
- Hot Work
-
-
- Lockout/Tagout
-
-
- Confined Space Entry

-
- Yes**
- Cause the use of "other than in-kind" equipment i.e. instrumentation, valves that may affect the process?
-
-
- Yes**
- Require modifying existing and/or developing new Procedures?
-
-
- Yes**
- Be issued to follow-up on an incident investigation recommendation?

Supervisor Signature: _____

Note: If any of above are checked an MOC is required.
Work Description: _____

 Part & Materials Used: _____

 Pages Attached: Pump Overhaul Sheet Seal Overhaul Sheet Valve Overhaul Sheet Management of Change Other

Date Started _____ Date Completed _____

Mech. Assigned To _____ Total Hours _____ Mtc Supervisor Signature _____

APPENDIX F-3

MEMORANDUM OF AGREEMENT:

Gila River Emergency Services

Chandler Regional Hospital

Arizona Department of Public Safety (Transportation)



GILA RIVER INDIAN COMMUNITY

SACATON, AZ 85247

LAW OFFICE

Post Office Box 97
(520) 562-3311 or (602) 963-4323
Fax: (520) 562-3433

July 23, 1996

Gregory Hedger
Regulations Affairs Manager
ROMIC
6760 W. Allison Road
P.O. Box 5004
Chandler, Arizona 85226

RE: Jurisdiction over lands located within the Lone Butte Industrial Park

Dear Mr. Hedger

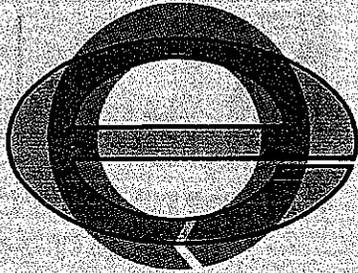
As you know, the Lone Butte Industrial Park (the "Park") is located within the exterior boundaries of the Gila River Indian Community (the "Community") and thus on reservation lands. Any incidents that occur within these boundaries, including within the Park are subject to the jurisdiction of the Community and those governmental services the Community provides. In the event of an emergent situation at your facility or within the Park, the responding agency would be the Gila River Indian Community Fire Department or other emergency personnel serving the Gila River Indian Community. Because the Park is located on the reservation the City of Chandler would not have jurisdiction to respond to emergency situations at the Park. I hope this clarifies any questions you may have regarding the party that would be responding to emergency calls at your facility. Should you require further clarification or have additional questions, please do not hesitate to contact me.

Sincerely,

Charlene D. Jackson
Assistant General Counsel

xc: Gila River Fire Department
file

ecology
and
economy
through
reclamation



ROMIC

CHEMICAL CORPORATION
SOUTHWEST

Reclamation of Solvents, Chemicals for All Industries

6760 W. ALLISON RD. • P.O. BOX 5004 • CHANDLER, AZ 85226 • PHONE (602) 961-1040 • FAX: (602) 961-7944

Romic Chemical Corp. Southwest may contact you for assistance regarding an emergency situation. This letter will function as acknowledgement of the service requested.

In compliance with the Resource Conservation and Recovery Act (RCRA) and U.S.E.P.A. we are notifying you that our contingency plans address emergency services (please see enclosed) and according to RCRA 40 CFR 265.52 we must describe arrangements agreed to.

Please read the attached agreement and sign the acknowledgement below. Return this acknowledgement by return mail for our files and maintain our plan in your files for possible reference.

Thank you for your expedient response to this request.

*ANNE GRACE, RN
PARAMEDIC COORD.
821-3206*

Very Truly Yours,
ROMIC CHEMICAL CORP. SOUTHWEST

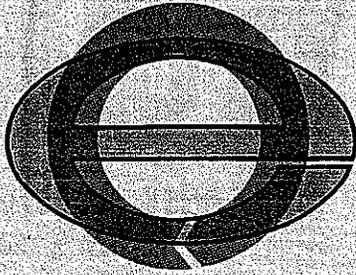
Richard McIver

Richard McIver
Regulatory Affairs Supervisor

This acknowledgement serves as notice that the undersigned, a representative of Chandler Regional Hospital Company has received a copy of the Romic Chemical Corp. Southwest contingency plan and arrangements requested by Romic. We acknowledge agreement to provide specific services requested and bill for those services accordingly.

SIGNED BY *Kenneth Aaron Brown* COMPANY *Chandler Regional Hospital*
PRINT NAME *Kenneth Aaron Brown* ADDRESS *475 S. Dobson*
TITLE *Medical Director* SERVICE REQUESTED *Emergency Medical Assistance.*
DATE OF RECEIPT *4-6-89*

ecology
and
economy
through
reclamation



ROMIC

CHEMICAL CORPORATION
SOUTHWEST

Reclamation of Solvents, Chemicals for All Industries

6760 W. ALLISON RD. • P.O. BOX 5004 • CHANDLER, AZ 85226 • PHONE (602) 961-1040 • FAX: (602) 961-7944

Romic Chemical Corp. Southwest may contact you for assistance regarding an emergency situation. This letter will function as acknowledgement of the service requested.

In compliance with the Resource Conservation and Recovery Act (RCRA) and U.S.E.P.A. we are notifying you that our contingency plans address emergency services (please see enclosed) and according to RCRA 40 CFR 265.52 we must describe arrangements agreed to.

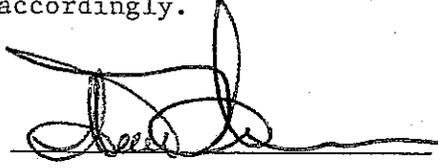
Please read the attached agreement and sign the acknowledgement below. Return this acknowledgement by return mail for our files and maintain our plan in your files for possible reference.

Thank you for your expedient response to this request.

Very Truly Yours,
ROMIC CHEMICAL CORP. SOUTHWEST

Richard McIver
Regulatory Affairs Supervisor

This acknowledgement serves as notice that the undersigned, a representative of Arizona D.P.S. Company has received a copy of the Romic Chemical Corp. Southwest contingency plan and arrangements requested by Romic. We acknowledge agreement to provide specific services requested and bill for those services accordingly.

SIGNED BY  COMPANY ARIZONA DEPT. OF PUBLIC SAFETY
PRINT NAME STEVE HERMANN ADDRESS P.O. Box 6638, Phoenix, Arizona 85005-6638
TITLE HAZ. MAT. UNIT COMMANDER SERVICE REQUESTED Coordinator D.P.S. responses, pertaining to I-10.
DATE OF RECEIPT APRIL 17, 1989

APPENDIX F-4

EXAMPLES OF COMPLETED INSPECTION FORMS

Routine Inspection Forms

Carbon Inspection Forms

ROMIC RCRA INSPECTION FORM

Date: 12/20/04

MUS

Pages 2 to 2 General Facility

Supervisor Signature: _____

Pages 3 to 6 Production

Supervisor Signature: _____

Pages 7 to 8 Warehouse

Supervisor Signature: _____

Pages 9 to 9 Field Services

Supervisor Signature: _____

Frequency (FREQ) Codes:

- D = Daily
- W = Weekly, on Tuesdays
- M = Monthly, during second week of the month
- S = Semi Annually, during April and October
- Y = Yearly, during October

General Instructions:

Complete and compile full package daily.

ROMIC RCRA INSPECTION FORM

PRODUCTION

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
BOILER AREA: VOC System, Chiller, Boiler, Carbon Beds				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D	OK		
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D	OK		Note time rain ended:
VOC System (data recording system operating, parameters within specified ranges)	D	OK		
Vent Flowmeters (readout reasonable; if no flow expected, readout is within +/- 1 scfm)	D	OK		
Valves not leaking, closed and capped when not in use	D	OK		
Flanges, other connections not leaking	D	OK		
Pumps not leaking	D	OK		

Tank Farms A & B: Tanks 101-105, 200, 201-204, 210, 112				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D		✓	Need to clean NMP/DEC off floor (spill)
Containment Area (No evidence of leaks, cracks, gaps, damage)	D	OK		
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D	OK		Note time rain ended: see above
Condition of tanks (no leaks or excessive corrosion)	D	OK		
Level indicators operating	D	OK		
Valves not leaking, closed and capped when not in use	D	OK		
Flanges, other connections not leaking	D	OK		
Pumps not leaking	D	OK		

Printed Name:	Date/Time:
Signature	

ROMIC RCRA INSPECTION FORM

PRODUCTION

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
Tank Farms C, D: Tanks 121-124, 113, 132, 136, 211-222 (Tank Farm D will change with future improvements)				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D	OK		
Containment Area (No evidence of leaks, cracks, gaps, damage)	D	OK		
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D	OK		Note time rain ended:
Condition of tanks (no leaks or excessive corrosion)	D	OK		
Level indicators operating	D	OK		
Valves closed and capped when not in use	D	OK		
Sampling valves closed and capped	D	OK		
Flanges, other connections not leaking	D	OK		
Pumps not leaking	D	OK		

Tank Farm E, F: 410-403, 411-413, 301-303, 311-313, 321-323				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D	N/A		
Containment Area (No evidence of leaks, cracks, gaps, damage)	D	N/A		
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D			Note time rain ended:
Condition of tanks (no leaks or excessive corrosion)	D			
Level indicators operating	D			
Valves closed and capped when not in use	D			
Flanges, other connections not leaking	D			
Pumps not leaking	D			

Printed Name: _____	Date/Time: _____
Signature _____	p. 4 of 9

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
Railspur Area: Storm Water Tank, Rail cars in Containment.				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D	OK		
Containment Area (No evidence of leaks, cracks, gaps, damage)	D	OK		
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D	OK		Note time rain ended:
Condition of tanks & rail cars (no leaks or excessive corrosion)	D	OK		
Level indicators operating	D	OK		
Valves not leaking, closed and capped when not in use	D	OK		
Flanges, other connections not leaking	D	OK		
Pumps not leaking	D	OK		

Canopy area				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D	OK		
Containment Area (No evidence of leaks, cracks, gaps, damage)	D	OK		
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D	OK		Note time rain ended:
Pumps not leaking	D	OK		

Printed Name:	Date/Time:
Signature	p. 5 of 9

ROMIC RCRA INSPECTION FORM

PRODUCTION

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
Non-Hazardous Waste Tank Farm, Cooling Towers [not part of required RCRA inspection]				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D	OK		
Containment Area (No evidence of leaks, cracks, gaps, damage)	D	OK		
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D		✓	Note time rain ended: There is water in cont. area
Condition of tanks (no leaks or excessive corrosion)	D	OK		
Level indicators operating	D	OK		
Valves not leaking, closed and capped when not in use	D	OK		
Flanges, other connections not leaking	D	OK		
Pumps not leaking	D	OK		

Production Area: Columns, Thin Filmers, Vac Pots				
General housekeeping (no loose materials, trash, PPE, spill residues, tools, equipment, supplies, etc.)	D	OK		
Containment Area (No evidence of leaks, cracks, gaps, damage)	D	OK		
No standing liquids in containment (unless w/in 24 hrs of rainstorm)	D	OK		Note time rain ended:
Monitoring Equip (pressure gauges, level indicators)	D	OK		
Condition of process units (no leaks or excessive corrosion)	D	OK		
Condition of tanks (no leaks or excessive corrosion)	D	OK		
Valves not leaking, closed and capped when not in use	D	OK		
Flanges, other connections not leaking	D	OK		
Pumps not leaking	D	OK		
Alarm/Control panels functioning properly	D	OK		

Printed Name: Joseph H. Gonzalez	Date/Time: 2100 12/22/04
Signature: Joe H. Gonzalez	

ROMIC RCRA INSPECTION FORM

Date: 17 DEC 04

Pages 2 to 2 General Facility

Supervisor Signature: _____

Pages 3 to 6 Production

Supervisor Signature: _____

Pages 7 to 8 Warehouse

Supervisor Signature: _____

Pages 9 to 9 Field Services

Supervisor Signature: _____

Frequency (FREQ) Codes:

- D = Daily
- W = Weekly, on Tuesdays
- M = Monthly, during second week of the month
- S = Semi Annually, during April and October
- Y = Yearly, during October

General Instructions:

Complete and compile full package daily.

Sean Murphy 1331

ROMIC RCRA INSPECTION FORM

WAREHOUSE

o Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
Sampling Area (in Building 1)				
Containment Area (No evidence of leaks, cracks, gaps, damage)	W		<input checked="" type="checkbox"/>	NEEDS NEW FLOOR COATING
No spill residues or liquids on floor	W	<input checked="" type="checkbox"/>		
Aisle spacing adequate, in accordance with permit	W	<input checked="" type="checkbox"/>		
Containers stacked properly, within the lines	W	<input checked="" type="checkbox"/>		
Containers properly closed, ring tops secured, unless sampling	W	<input checked="" type="checkbox"/>		
Container condition (no leakers, bulgers, damaged drums)	W	<input checked="" type="checkbox"/>		
Container labeling (no labels missing, or damaged or torn so they are illegible)	W	<input checked="" type="checkbox"/>		
Incompatibles segregated	W	<input checked="" type="checkbox"/>		

Warehouse #1 (Building 1)				
Containment Area (No evidence of leaks, cracks, gaps, damage)	W		<input checked="" type="checkbox"/>	NEEDS NEW FLOOR COATING
No spill residues or liquids on floor	W	<input checked="" type="checkbox"/>		
Aisle spacing adequate, in accordance with permit	W	<input checked="" type="checkbox"/>		
Containers stacked properly, within the lines; no leaners; within height limit	W	<input checked="" type="checkbox"/>		
Containers properly closed, ring tops secured	W	<input checked="" type="checkbox"/>		
Container condition (no leakers, bulgers, damaged drums)	W	<input checked="" type="checkbox"/>		
Container labeling (no labels missing, or damaged or torn so they are illegible)	W	<input checked="" type="checkbox"/>		
No ignitables/reactives within the 50-ft. line.	W	<input checked="" type="checkbox"/>		
Incompatibles segregated	W	<input checked="" type="checkbox"/>		
Warehouse #2 (Building 2)				
Containment Area (No evidence of leaks, cracks,	W		<input checked="" type="checkbox"/>	

ROMIC RCRA INSPECTION FORM

WAREHOUSE

o Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
gaps, damage)			<input checked="" type="checkbox"/>	
No spill residues or liquids on floor	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Aisle spacing adequate, in accordance with permit	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Containers stacked properly, within the lines; no leaners; within height limit	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Containers properly closed, ring tops secured	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Container condition (no leakers, bulgers, damaged drums)	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Container labeling (no labels missing, damaged or torn so they are illegible)	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
No ignitables/reactives within the 50-ft. line.	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Incompatibles segregated	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

West Bay Processing Area				
ITEM/AREA	FREQ	YES	NO	COMMENTS/WORK ORDER #
Containment Area (No evidence of leaks, cracks, gaps, damage)	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NEEDS NEW FLOOR COATING
No spill residues or liquids on floor	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Aisle spacing adequate, in accordance with permit	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Containers stacked properly, within the lines	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Containers properly closed, ring tops secured, unless sampling	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Container condition (no leakers, bulgers, damaged drums)	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Container labeling (no labels missing, damaged or torn so they are illegible)	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

ROMIC RCRA INSPECTION FORM

FIELD SERVICES

o Check here if additional sheets are attached.

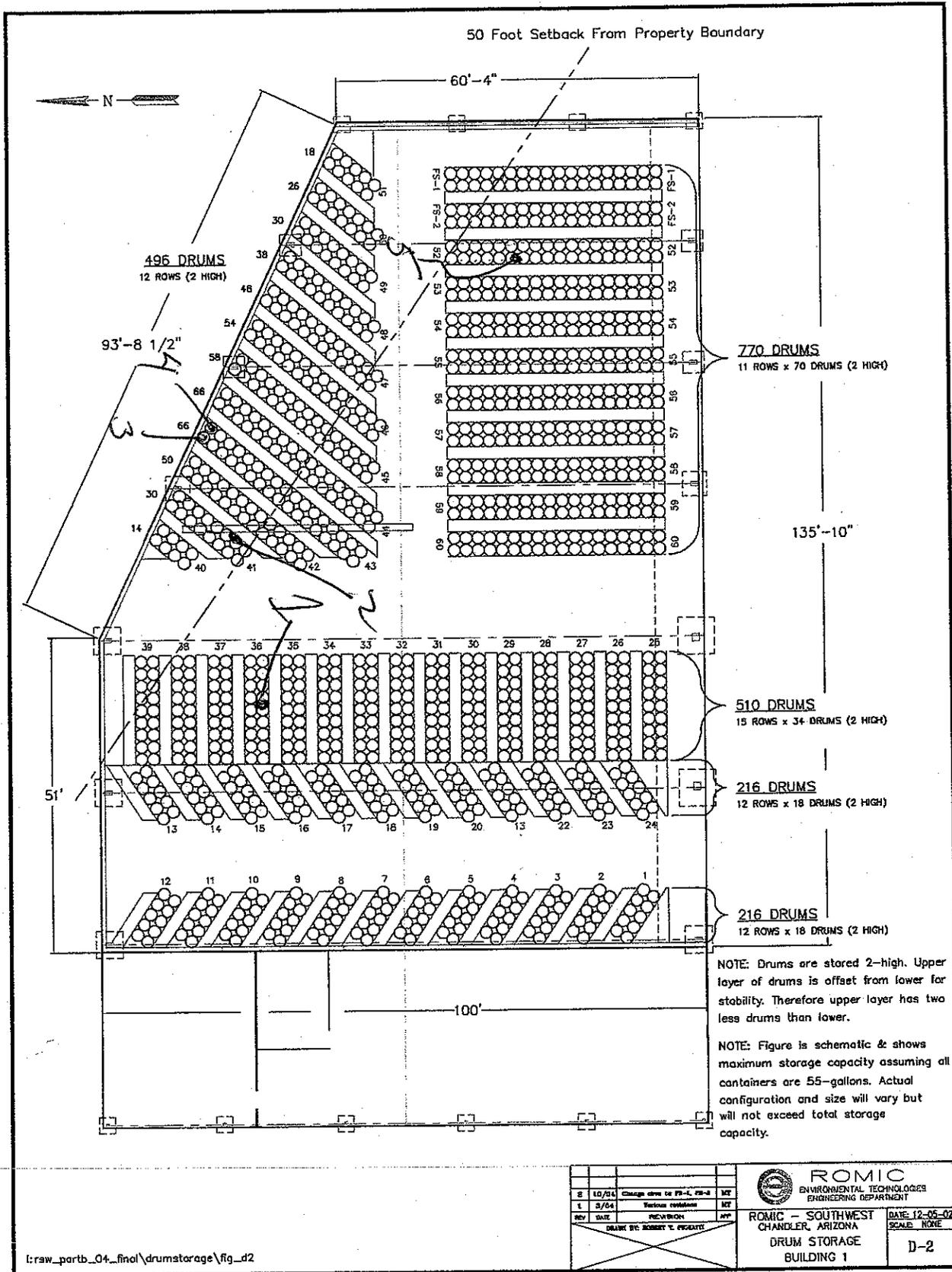
ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
East Bay Processing Area				
Containment Area (No evidence of leaks, cracks, gaps, damage)	W	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NEEDS NEW FLOOR COATING
No spill residues or liquids on floor	W	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Aisle spacing adequate, in accordance with permit	W	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Containers stacked properly, within the lines	W	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Containers properly closed, ring tops secured, unless sampling	W	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Container condition (no leakers, bulgers, damaged drums)	W	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Container labeling (no labels missing, damaged or torn so they are illegible)	W	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Weekly Facility Inspection Sheet

11/29 inspected by Muckew's Sew

Item	DATE	Area	Dept.	Corrective Action Required	Person making corrections	Date Item Corrected
1	11/29	Row 36	OPS	Corrosive stored over FLAM	11	11-29-04
2	11/29	Row 41	OPS	Small DF with hole in side	11	11-29-04
3	11/29	Row 43	OPS	White 55 Cal Metal Damaged	11	11-29-04
4	11/29	Row 43	OPS	11 A A Damaged	11	11-29-04
5	11/29	Row 52	OPS	Blue Poly Ring Not Secured	11	11-29-04
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						

The person making the corrections must initial and date each individual line item listed above. These items need to be fixed or a workorder must be submitted within 24 hours. Please return this report to the EHS department.
 EHS Department Reviewer Signature: _____ Date: _____



l:\raw_partb_04_finol\drumstorage\fig_d2

2	10/24	Change class to PS-4, PS-3	MT
1	3/04	Various changes	MT
REV	DATE	REVISION	APP
		DRAWN BY: ROBERT V. FERGUSON	

ROMIC
ENVIRONMENTAL TECHNOLOGIES
ENGINEERING DEPARTMENT

ROMIC - SOUTHWEST
CHANDLER, ARIZONA
DRUM STORAGE
BUILDING 1

DATE: 12-05-02
SCALE: NONE

D-2

MONTHLY INSPECTIONS

SIGN OFF SHEET

Month: DECEMBER 04

Type of the Inspection	COMPLETED
------------------------	-----------

Emergency Shower and Eyewash



Emergency Spill Kit Inspection



Fire Extinguisher



SCBA



Monthly RCRA



Verified by EH&S Manager: Nicki Schultz Date: Dec. 22, 2004

EMERGENCY SHOWER AND EYEWASH MONTHLY INSPECTIONS

Inspector: SEAN F MURPHY

Date: 16 DEC 04

Time: 1630

Equipment Location	Equipment Present	Evaluation	Comments
1 Lab	Eyewash/Shower	Pass Fail	
2 Distillation Area	Eyewash	Pass Fail	
3 West Processing Bay	Eyewash/Shower	Pass Fail	
4 Whse1 South Wall	Eyewash/Shower	Pass Fail	
5 Whse1 East Wall	Eyewash/Shower	Pass Fail	
6 Plant Maintenance	Eyewash	Pass Fail	
7 Whse1 Canopy North	Eyewash/Shower	Pass Fail	
8 East Processing Bay	Eyewash/Shower	Pass Fail	
9 Whse2 Canopy	Eyewash/Shower	Pass Fail	
10 Whse2 North Wall	Eyewash/Shower	Pass Fail	
11		Pass Fail	
12		Pass Fail	
13		Pass Fail	
14		Pass Fail	
15		Pass Fail	
16		Pass Fail	
17		Pass Fail	
18		Pass Fail	
19		Pass Fail	
20		Pass Fail	

Corrections: _____

INSPECTION CERTIFIED BY: Micki Schultz

DATE: 12/22/04

SCOTT SCBA MONTHLY INSPECTION CHECKLIST

An answer of NO to any of the following questions requires
the unit must be removed from service.

1	2	3	4	5	6	7	8
Regulator #	29110594	29300573	9210604	29300567	N/A	N/A	N/A
Case #	1	2	3	4	N/A	N/A	N/A
Is the equipment complete(bottle, harness, inspection tag)?	/	/	/	/	/	/	/
Is the cylinder full? (Needle on yellow full mark.)	/	/	/	/	/	/	/
Is the date on the regulator within the last year? Note date.	Date_03-04_	Date_03-04_	Date_03-04_	Date_03-04_	N/A	N/A	N/A
Has the bottle been hydrotested within the last five years? Note date.	Date_06-02_	Date_06-02_	Date_06-02_	12/04 Date_12-04_	Date_05-02_	Date_06-02_	Date_06-02_
Are the face-piece, head straps, breathing tube, and exhalation valve in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Is the condition of the harness satisfactory?	/	/	/	/	/	/	/
Are the straps on the harness fully extended?	/	/	/	/	/	/	/
Have you initialed the inspection tag ?	/	/	/	/	/	/	/

INSPECTED BY: Sam Murphy DATE: 12 Dec 04

CERTIFIED BY: Nicki Schultz DATE: 12/22/04

FIRE EXTINGUISHERS

CYLINDER SIZE	CLASS Type	LOCATION	"CHECK" IF "OK"	NEEDS A SEAL?	REMARKS
5	ABC	Field Services/Safety			
5	ABC	Operations Trailer			
10	ABC	Operations Office			
10	ABC	Lunchroom North			
10	ABC	Lunchroom South			
5	ABC	Clean Changing Room			
5	ABC	Contaminated Changing room			
5	ABC	Lab Reception			
10	ABC	Lab East exit			
10	ABC	Lab West Exit			
10	Halon	Lab By Office			
10	ABC	Acid Test Room			
15	ABC	By Air Compressor			
15	ABC	Outside Distillation Boiler			
15	PKP	By tank 200			
15	ABC	West Processing Bay			
250	PKP	By Tank 121			
***	AFFF/PKP	By Tank 122			
5	ABC	TM on Mac Tool Chest			
10	ABC	TM West Wall			
10	ABC	TM Between Roll-up doors			
10	ABC	PM West Exit			
5	ABC	PM Hot Work Equip			To be mounted
5	ABC	PM Hot Work Equip			To be mounted
5	ABC	PM Hot Work Equip			To be mounted
5	ABC	PM Hot Work Equip			To be mounted
5	ABC	PM Hot Work Equip			To be mounted
20	ABC	Whse1 West Wall			
20	ABC	Whse1 Inside 1st Roof Support			
20	ABC	Whse1 Outside 2nd Roof Support			
20	ABC	Whse1 Inside 3rd Roof Support			
20	PKP	Whse1 Outside 4th Roof Support			
20	ABC	Whse1 Inside 5th Roof Support			
15	ABC	Whse 1 East Wall			
***	AFFF/PKP	By East Bay Retaining Wall			
250	PKP	By East Bay Retaining Wall			
20	ABC	East Processing Bay			
20	ABC	Whse2 Entry			
10	ABC	Whse 2 By Emergency Shower			
5	ABC	Admin Trailer Entry			
5	ABC	Admin Trailer Exit			
5	ABC	Finance Trailer Exit			
5	ABC	Transportation			

Inspector:

SEAN MURPHY

Date:

12/14/04

Time:

AM / PM

Additional Notations:

TM= Truck Maintenance

PM= Plant Maintenance

Received by Micki Schultz 12/22/04

Monthly Spill Kit Inspection

Month: DECEMBER 04

Inspected by: <u>SEAN MURPHY</u> Date <u>12/04/04</u>
Reviewed by: <u>Micki Schultz</u> <u>12/22/04</u>

Location	Type	Seal Intact?		Spill dry full?	
		Yes	No*	Yes	No**
Control Room Oils & Solvent	95 Gal Overpack	✓		N/A	N/A
Warehouse 1 Oils & Solvent	95 Gal Overpack	✓		N/A	N/A
Across from Poly Cutting area O&S	95 Gal Overpack	✓		N/A	N/A
East Bay Acid	95 Gal Overpack	✓		N/A	N/A
East Bay Base	95 Gal Overpack	✓		N/A	N/A
Warehouse 2 Acid	95 Gal Overpack	✓		N/A	N/A
Warehouse 2 Base	95 Gal Overpack	✓		N/A	N/A
Operations Mgr. Trailer	Drum of floor dry	N/A	N/A		
Distillation Area	Drum of floor dry	N/A	N/A		
West Bay Processing	Drum of floor dry	N/A	N/A		
Tank 122	Drum of floor dry	N/A	N/A		
Warehouse 1 East	Drum of floor dry	N/A	N/A		
Warehouse 1 Middle	Drum of floor dry	N/A	N/A		
Warehouse 1 West	Drum of floor dry	N/A	N/A		
East Bay Processing	Drum of floor dry	N/A	N/A		
Rail Spur North	Drum of floor dry	N/A	N/A		
Rail Spur Middle	Drum of floor dry	N/A	N/A		
Rail Spur South	Drum of floor dry	N/A	N/A		
Warehouse 2 North	Drum of floor dry	N/A	N/A		
Warehouse 1 South	Drum of floor dry	N/A	N/A		

* If seal is not intact, inventory spill kit. Reorder necessary supplies, restock and reseal the spill kit.

** If floor dry is below 3/4 full have it refilled

ROMIC RCRA INSPECTION FORM

GENERAL FACILITY

Check here if additional sheets are attached.

ITEM/AREA	FREQ	ACCEPTABLE		COMMENTS/WORK ORDER #
		YES	NO	
SITE SECURITY				
Front gate operational	M	/		
Other gates locked securely	M	/		
Signs legible from 25 feet	M	/		
Fence (walk the perimeter, no gaps, breaks, broken strands of barbed wire)	S	/		15 DEC 04

EMERGENCY EQUIPMENT (refer to emergency equipment locations map in Contingency Plan)				
Emergency Showers and Eyewash Units (operating, sufficient flow)	M	/		
SCBA (adequate air supply/pressure, mask condition)	M			
Telephone System (operating properly)	M	/		
RA/Intercom System (operating properly)	M	/		
Fire extinguishers (fully charged, seal intact)	M	/		
Fire hoses (in good condition, no tears or damage)	M	/		
Evacuation Notice Alarm (operating properly)	M	/		CHANGED OUT CANS
Fire Hydrants (Clear access, no obstruction)	M	/		

SAFETY SUPPLIES				
First aid kits (adequate supply, condition)	M	/		FILLED 12-14-04
Absorbent (adequate supply—50 bags min.)	M	/		
Overpack Drums (adequate supply—20 min.)	M	/		
PPE (adequate supply, condition)	M	/		
Respirator cartridges (adequate supply, end-of-service-life indicator ok)	M	/		

Printed Name: <i>SEAN P MURPHY</i>	Date/Time: <i>15 DEC 04</i>
Signature: <i>[Handwritten Signature]</i>	p. 2 of 9

Reviewed by Micki Schultz 12/22/04

Temperature Readings

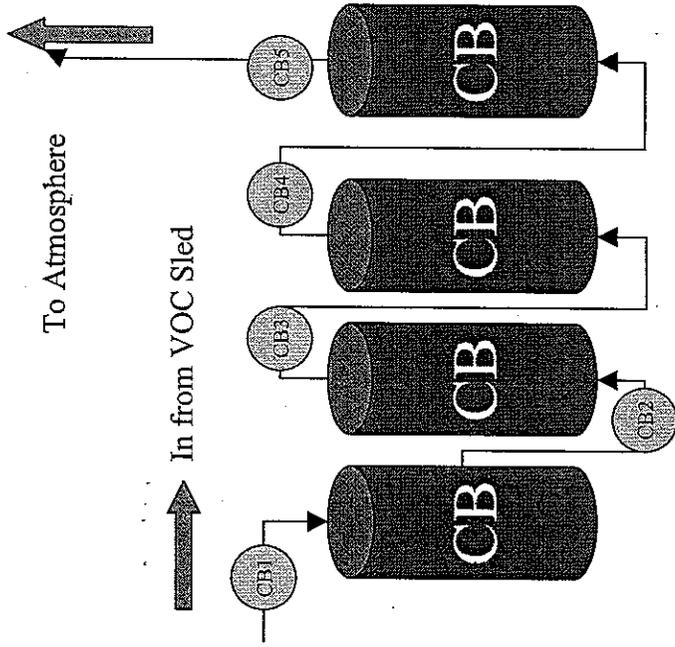
From main screen press the F3 key to get to the Temperature Display, then record the following temperatures:

Condenser #1: -13 °C

Condenser #2: 5 °C

Separator #1: 9 °C

Separator #2: 35 °C



Ensure vapors are being directed to the carbon beds when taking these readings

Procedures:

1. Find VOC Skid Control Panel.
2. Press the F1 key.
3. Ensure the VOC exhaust is routed to the Carbon Bed.
4. If icon is green and reads ATMOS, press icon to switch to Carbon Bed.
5. Wait 15 minutes before proceeding with the readings.

CB1 (before carbon beds)

1. Record Background
2. Locate Sample Port CB1 (Marked in yellow)
3. Remove plug slowly to ensure positive flow
4. Place FID adjacent to sample port
5. Allow reading to stabilize
6. Record reading on Monitoring form
7. Replace sample plug
8. Go to sample port CB2

CB2 (between Carbon Bed 1 and Carbon Bed 2):

1. Locate Sample Port CB2 (Marked in yellow)
2. Remove plug slowly to ensure positive flow
3. Place FID adjacent to sample port
4. Allow reading to stabilize
5. Record reading on Monitoring form
6. Replace sample plug
7. Go to sample port CB3

CB3 (between Carbon Bed 2 and Carbon Bed 3):

1. Locate Sample Port CB3 (Marked in yellow)
2. Repeat the steps used for CB2

CB4 (between Carbon Bed 3 and Carbon Bed 4):

1. Locate Sample Port CB4 (Marked in Yellow)
2. Repeat the steps used for CB2

CB5 (after Carbon Bed 4):

1. Place FID adjacent to atmospheric vent (Marked in yellow)
2. Allow reading to stabilize
3. Record reading on Monitoring form

Tester Initials: SPM

Date/Time: 12-22-04 0918

Background: 0.0 ppm

CB1(Pre): 2106 ppm

CB2(Mid): 228.7 ppm

Carbon Changeout Levels:

CB3(Mid): 0.0 ppm

MAX: 25 ppm over background ←

CB4:(Mid): 0.0 ppm

MAX: Background ↓

CB5:(Post): 0.0 ppm

NOTE: If readings at CB4 reads greater than 25 ppm complete Maintenance request form for carbon change out within 24 hours. Move Beds 3 and 4 to slots 1 and 2, install fresh carbon in slots 3 and 4.

If readings at CB5 reads greater than background, shut down processes as soon as safely possible, complete Work Order to change out all four carbon beds **prior to process restart**.
Notify Eric Fuller of any readings requiring carbon changeout as soon as practical.

APPENDIX F-5

VOC MONITORING PROTOCOL

Subparts AA and BB Inspection Spreadsheet

(See Separately Bound 11x17 Report)

Distillation Column Inspection

	Distillation Collumn			Date monitored: 27 October 04	Perchloroethylene/MCH	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
T	REB/Vent	1	FL	Top of Reboiler Steam/Vent Outlet Tee	Flange	> 10 (w/w)	Gas/Vapor
T	REB/Vent	2	VALVE	Flanged Vent Valve	Valve	> 10 (w/w)	Gas/Vapor
T	REB/Vent	3	VALVE	Threaded Steam Valve	Valve	> 10 (w/w)	Gas/Vapor
T	REB/Vent	4	NIP	2"L	Other connector	> 10 (w/w)	Gas/Vapor
T	REB/Vent	5	SQRF		Other connector	> 10 (w/w)	Gas/Vapor
T	REB/Vent	6	Coupling	From top REB west side	Other connector	> 10 (w/w)	Gas/Vapor
T	REB/Vent	7	Pipe	6"L	Other connector	> 10 (w/w)	Gas/Vapor
T	REB/Vent	8	TEE		Other connector	> 10 (w/w)	Gas/Vapor
T	REB/Vent	9	FL	on valve	Flange	> 10 (w/w)	Gas/Vapor
T	REB/Vent	10	FL		Flange	> 10 (w/w)	Gas/Vapor
P	REB	1	CAP	Top Reboiler	Flange	> 10 (w/w)	Light Liquid
P	REB	2	TC	Reboiler Vacuum Pressure Transmitter	Other connector	> 10 (w/w)	Light Liquid
P	REB	3	TC	Reboiler Level Transmitter	Other connector	> 10 (w/w)	Light Liquid
P	REB	4	TC	Reboiler Level Transmitter	Other connector	> 10 (w/w)	Light Liquid
P	REB	5	Pipe	Top of LT from REB	Other connector	> 10 (w/w)	Light Liquid
P	REB	6	Pipe	Bottom of LT from REB	Other connector	> 10 (w/w)	Light Liquid
P	REB	7	LT	Level Transmitter	Other connector	> 10 (w/w)	Light Liquid
R	REB/Sample	1	FL	Sample Outlet on East Side	Flange	> 10 (w/w)	Light Liquid
R	REB/Sample	2	NIP	Between valve and FL	Other connector	> 10 (w/w)	Light Liquid
R	REB/Sample	3	VALVE	Sample	Valve in light liquid service	> 10 (w/w)	Light Liquid
R	REB/Sample	4	NIP	1" threaded	Other connector	> 10 (w/w)	Light Liquid
R	REB/Sample	5	90		Other connector	> 10 (w/w)	Light Liquid
R	REB/Sample	6	Bushing	1" x 1/4"	Other connector	> 10 (w/w)	Light Liquid
R	REB/Sample	7	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
R	REB/Sample	8	Pipe	8"L	Other connector	> 10 (w/w)	Light Liquid
R	REB/Sample	9	Coupling	From REB east side	Other connector	> 10 (w/w)	Light Liquid
S	REB/Side	1	FL	Side Fill into Reboiler	Flange	> 10 (w/w)	Light Liquid
S	REB/Side	2	VALVE	Side Fill Valve to Reboiler	Open-ended valve or line	> 10 (w/w)	Light Liquid
S	REB/Side	3	FL	Cap to Valve S2	Flange	> 10 (w/w)	Light Liquid
S	REB/Side	4	Pipe	From REB end, west side	Other connector	> 10 (w/w)	Light Liquid

Distillation Column Inspection

	Distillation Collumn			Date monitored: 27 October 04	Perchloroethylene/MCH	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
S	REB/Side	5	Reducer	3" x 2 1/2"	Other connector	> 10 (w/w)	Light Liquid
S	REB/Side	6	NIP	Between FL S1 and tee	Other connector	> 10 (w/w)	Light Liquid
S	REB/Side	7	TEE		Other connector	> 10 (w/w)	Light Liquid
S	REB/Side	8	FL	Top of valve S2	Flange	> 10 (w/w)	Light Liquid
D	DC/Drain	1	FL	Bottom Drain Line Valve from Column	Flange	> 10 (w/w)	Light Liquid
D	DC/Drain	2	FL	Bottom Drain Line Valve from Column	Flange	> 10 (w/w)	Light Liquid
D	DC/Drain	3	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
D	DC/Drain	4	Pipe	Bottom of DC to valve	Other connector	> 10 (w/w)	Light Liquid
D	DC/Drain	5	Pipe	Valve to tee	Other connector	> 10 (w/w)	Light Liquid
Q	REB/Bottom	1	FL	Bottom Fill/Drain	Flange	> 10 (w/w)	Light Liquid
Q	REB/Bottom	2	VALVE	Bottom Fill Flanged Valve	Valve in light liquid service	> 10 (w/w)	Light Liquid
Q	REB/Bottom	3	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
Q	REB/Bottom	4	Reducer	3" x 2"	Other connector	> 10 (w/w)	Light Liquid
Q	REB/Bottom	5	VALVE	Threaded	Open-ended valve or line	> 10 (w/w)	Light Liquid
Q	REB/Bottom	6	CAM	Camlock Fitting	Other connector	> 10 (w/w)	Light Liquid
Q	REB/Bottom	7	FL	Bottom of valve Q2	Flange	> 10 (w/w)	Light Liquid
Q	REB/Bottom	8	Pipe	3"OD from bottom of REB	Other connector	> 10 (w/w)	Light Liquid
Q	REB/Bottom	9	Pipe	From FL Q7, 90 and 8' pipe	Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	1	FL	6" Bottom Flange	Flange	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	2	VALVE	Flanged Valve # 7 Before Pump	Valve in light liquid service	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	3	EX	Expansion Flex Joint Before Pump	Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	4	TC	Into Recirculating Pump	Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	5	P	Recirculation Pump	Pump in light liquid service	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	6	TC	Out of Recirculating Pump	Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	7	TC	Into Heat Exchanger	Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	8	TC	Into Heat Exchanger	Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	9	Pipe	From REB to FL V1	Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	10	FL	valve	Flange	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	11	FL	top of EX	Flange	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	12	FL	Bottom of EX	Flange	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	13	90	Bottom FL V12	Other connector	> 10 (w/w)	Light Liquid

Distillation Column Inspection

	Distillation Collumn			Date monitored: 27 October 04	Perchloroethylene/MCH	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
V	REB-HE/Liquid	14	Pipe	Coming out of pump going to HE	Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	15	Pipe	2"OD from 90 V13	Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	16	Valve		Valve in light liquid service	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	17	CAM		Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	18	Pipe	1 1/2"L from CAM V17	Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	19	90		Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	20	CAM		Other connector	> 10 (w/w)	Light Liquid
V	REB-HE/Liquid	21	CAP		Other connector	> 10 (w/w)	Light Liquid
G	HE	1	CAP	TC on West End Cap	Other connector	> 10 (w/w)	Light Liquid
G	HE	2	FL	Heat Exchanger West End Cap Connection	Flange	> 10 (w/w)	Light Liquid
G	HE	3	FL	Heat Exchanger In/Out Section Connection, east e	Flange	> 10 (w/w)	Light Liquid
G	HE	4	FL	Heat Exchanger East End Cap Connection	Flange	> 10 (w/w)	Light Liquid
G	HE	5	CAP	1" Plug on Top In/Out Section	Other connector	> 10 (w/w)	Light Liquid
H	HE/Drain 1	1	FL	East, Heat Exchanger Bottom Drain 1	Flange	> 10 (w/w)	Light Liquid
H	HE/Drain 1	2	90	East	Other connector	> 10 (w/w)	Light Liquid
H	HE/Drain 1	3	VALVE	East, Heat Exchanger Bottom Drain Valve	Valve in light liquid service	> 10 (w/w)	Light Liquid
H	HE/Drain 1	4	NIP	East. 3"	Other connector	> 10 (w/w)	Light Liquid
H	HE/Drain 1	5	CAM	East	Other connector	> 10 (w/w)	Light Liquid
H	HE/Drain 2	6	Pipe	6"OD, from HE to FL	Other connector	> 10 (w/w)	Light Liquid
I	HE/Drain 2	1	90	1" threaded pipe	Other connector	> 10 (w/w)	Light Liquid
I	HE/Drain 2	2	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
I	HE/Drain 2	3	NIP	4"	Other connector	> 10 (w/w)	Light Liquid
I	HE/Drain 2	4	CAM		Other connector	> 10 (w/w)	Light Liquid
I	HE/Drain 2	5	Reducer	1" x 2" Camlock	Other connector	> 10 (w/w)	Light Liquid
I	HE/Drain 2	6	CAP	Camlock	Other connector	> 10 (w/w)	Light Liquid
I	HE/Drain 3	7	Pipe	2"OD from HE, east side	Other connector	> 10 (w/w)	Light Liquid
I	HE/Drain 4	8	NIP	to 90	Other connector	> 10 (w/w)	Light Liquid
I	HE/Drain 5	9	NIP	2"L threaded from 90	Other connector	> 10 (w/w)	Light Liquid
J	HE-REB/Mix	1	FL	Heat Exchanger Outlet for Return Line to Reboiler	Flange	> 10 (w/w)	Light Liquid
J	HE-REB/Mix	2	EX	Heat Exchanger Flex Joint on Return Line to Rebo	Other connector	> 10 (w/w)	Light Liquid
J	HE-REB/Mix	3	TC	Heat Exchanger Line Into Reboiler	Other connector	> 10 (w/w)	Light Liquid

Distillation Column Inspection

	Distillation Collumn			Date monitored: 27 October 04	Perchloroethylene/MCH	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
U	REB-DC/Vapor	1	FL	Top of Reboiler	Flange	> 10 (w/w)	Gas/Vapor
U	REB-DC/Vapor	2	FL	Vapor Line Into Column	Flange	> 10 (w/w)	Gas/Vapor
F	DC-REB/Liquid Return	1	TC	Liquid Return Line from Column	Other connector	> 10 (w/w)	Light Liquid
F	DC-REB/Liquid Return	2	TC	Liquid Return Line Into Reboiler	Other connector	> 10 (w/w)	Light Liquid
C	DC	1	FL	Top of Column	Flange	> 10 (w/w)	Gas/Vapor
C	DC	2	TC	Vacuum Pressure Transmitter on Top of Column	Other connector	> 10 (w/w)	Gas/Vapor
C	DC	3	TC	Temperature Transmitter	Other connector	> 10 (w/w)	Light Liquid
C	DC	4	CAP	8' above Roof (below top platform) facing SE	Other connector	> 10 (w/w)	Light Liquid
C	DC	5	CAP	4' above Roof facing NE	Other connector	> 10 (w/w)	Light Liquid
C	DC	6	CAP	Just Above Roof facing SE	Other connector	> 10 (w/w)	Light Liquid
C	DC	7	CAP	Just Above Bottom on SE Side Directly Above Next	Other connector	> 10 (w/w)	Light Liquid
C	DC	8	CAP	Near Bottom on SE Side	Other connector	> 10 (w/w)	Light Liquid
C	DC	9	CAP	Near Bottom on SE Side	Other connector	> 10 (w/w)	Light Liquid
C	DC	10	FL	Blind Flange Near Bottom on West Side	Flange	> 10 (w/w)	Light Liquid
C	DC	11	FL	Base of Column	Flange	> 10 (w/w)	Light Liquid
E	DC-COND/Vapor	1	TC	Top of Column for Vapor to Condenser	Other connector	> 10 (w/w)	Gas/Vapor
E	DC-COND/Vapor	2	TC	Into Condenser	Other connector	> 10 (w/w)	Gas/Vapor
E	DC-COND/Vapor	3	FL	Into Condenser	Flange	> 10 (w/w)	Gas/Vapor
E	DC-COND/Vapor	4	TG	Temperature Guage on North Side	Other connector	> 10 (w/w)	Gas/Vapor
E	DC-COND/Vapor	5	VALVE	South Side of Inlet	Valve in gas/vapor service	> 10 (w/w)	Gas/Vapor
E	DC-COND/Vapor	6	FL	Valve E5	Flange	> 10 (w/w)	Gas/Vapor
A	COND	1	FL	Condenser In End, west side	Flange	> 10 (w/w)	Light Liquid
A	COND	2	CAP	Plug on Top of Condenser In End Cap	Other connector	> 10 (w/w)	Light Liquid
A	COND	3	CAP	Plug on Bottom of Condenser In End Cap	Other connector	> 10 (w/w)	Light Liquid
A	COND	4	FL	Condenser Out End	Flange	> 10 (w/w)	Light Liquid
B	COND-SEP/Condensate	1	CAP	Plug on south side	Other connector	> 10 (w/w)	Light Liquid
B	COND-SEP/Condensate	2	FL	Out of Condenser, bottom east side	Flange	> 10 (w/w)	Light Liquid

Distillation Column Inspection

	Distillation Collumn			Date monitored: 27 October 04	Perchloroethylene/MCH	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
B	COND-SEP/Condensate	3	TC	Out of Condenser	Other connector	> 10 (w/w)	Light Liquid
B	COND-SEP/Condensate	4	TC	Line from Condenser to Separator	Other connector	> 10 (w/w)	Light Liquid
B	COND-SEP/Condensate	5	TC	Top of Separator	Other connector	> 10 (w/w)	Light Liquid
B	COND-SEP/Condensate	6	FL	Top of Separator for Submerged Fill	Flange	> 10 (w/w)	Light Liquid
B	COND-SEP/Condensate	7	Pipe	From bottom COND to FL, 8"OD	Other connector	> 10 (w/w)	Light Liquid
B	COND-SEP/Condensate	8	90	down-north	Other connector	> 10 (w/w)	Light Liquid
B	COND-SEP/Condensate	9	90	north-down	Other connector	> 10 (w/w)	Light Liquid
B	COND-SEP/Condensate	10	Reducer	Between 90 and TC	Other connector	> 10 (w/w)	Light Liquid
W	SEP	1	VPG	Vacuum Pressure Guage threaded into top of Sepa	Other connector	> 10 (w/w)	Light Liquid
W	SEP	2	SG	NW Side Top	Other connector	> 10 (w/w)	Light Liquid
W	SEP	3	SG	NW Side Middle	Other connector	> 10 (w/w)	Light Liquid
W	SEP	4	SG	NW Side Bottom	Other connector	> 10 (w/w)	Light Liquid
W	SEP	5	SG	SE Side Middle Top	Other connector	> 10 (w/w)	Light Liquid
W	SEP	6	SG	SE Side Middle Bottom	Other connector	> 10 (w/w)	Light Liquid
W	SEP	7	TC	Separator Level Transmitter, Top	Other connector	> 10 (w/w)	Light Liquid
W	SEP	8	TC	Separator Level Transmitter, Bottom	Other connector	> 10 (w/w)	Light Liquid
X	SEP/Bottom	1	FL	Bottom of Separator	Flange	> 10 (w/w)	Light Liquid
X	SEP/Bottom	2	Pipe	Flange to pipe welded to cross with 3 connections: 1 1/2" threaded pipe to start reflux line, 1" coupling to start drain line, and 1 1/2" flange to start product line	Other connector	> 10 (w/w)	Light Liquid
X	SEP/Bottom	3	Pipe	2"OD to FL from bottom of SEP	Other connector	> 10 (w/w)	Light Liquid
X	SEP/Bottom	4	Cross	to product, to reflux, and to drain	Other connector	> 10 (w/w)	Light Liquid

Distillation Column Inspection

	Distillation Column			Date monitored: 27 October 04	Perchloroethylene/MCH	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
Y	SEP/Drain	1	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
Y	SEP/Drain	2	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
Y	SEP/Drain	3	NIP	4"	Other connector	> 10 (w/w)	Light Liquid
Y	SEP/Drain	4	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
Y	SEP/Drain	5	NIP	1/2"	Other connector	> 10 (w/w)	Light Liquid
Y	SEP/Drain	6	CAM	Camlock Fitting	Other connector	> 10 (w/w)	Light Liquid
Y	SEP/Drain	7	Coupling	from cross	Other connector	> 10 (w/w)	Light Liquid
Z	SEP/Side	1	Pipe	Side of Separator	Other connector	> 10 (w/w)	Light Liquid
Z	SEP/Side	2	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
Z	SEP/Side	3	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
Z	SEP/Side	4	90		Other connector	> 10 (w/w)	Light Liquid
Z	SEP/Side	5	NIP	4"	Other connector	> 10 (w/w)	Light Liquid
Z	SEP/Side	6	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
Z	SEP/Side	7	TP	15"	Other connector	> 10 (w/w)	Light Liquid
Z	SEP/Side	8	90		Other connector	> 10 (w/w)	Light Liquid
Z	SEP/Side	9	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
Z	SEP/Side	10	UNION		Other connector	> 10 (w/w)	Light Liquid
Z	SEP/Side	11	TP	approximately 5 feet, connects into threaded tee i	Other connector	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	1	UNION		Other connector	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	2	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	3	VALVE		Pump in light liquid service	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	4	NIP	3"	Other connector	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	5	TEE	threaded, connects with side line	Other connector	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	6	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	7	UNION		Other connector	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	8	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	9	P	Reflux Pump	Pump in light liquid service	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	10	FL	Into Flow/Density Transmitter	Flange	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	11	FL	Out of Flow/Density Transmitter	Flange	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	12	TC	Reflux Line into Column Top	Other connector	> 10 (w/w)	Light Liquid
AA	SEP-DC/Reflux	13	Pipe	9"L from cross to reducer	Other connector	> 10 (w/w)	Light Liquid

Distillation Column Inspection

	Distillation Column			Date monitored: 27 October 04	Perchloroethylene/MCH	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
AA	SEP-DC/Reflux	14	Reducer	2 1/2" x 2"	Other connector	> 10 (w/w)	Light Liquid
AB	SEP-PF1/Vapor	1	TC	Top of Separator	Other connector	> 10 (w/w)	Gas/Vapor
AB	SEP-PF1/Vapor	2	TC	P & F Condenser	Other connector	> 10 (w/w)	Gas/Vapor
AB	SEP-PF1/Vapor	3	TCT	Tri-Clamp to Thread Converter on Plate & Frame C	Other connector	> 10 (w/w)	Gas/Vapor
K	PF1/Out	1	TCT	Tri-Clamp to Thread Converter on Plate & Frame C	Other connector	> 10 (w/w)	Light Liquid
K	PF1/Out	2	TC	P & F Condenser	Other connector	> 10 (w/w)	Light Liquid
L	PF1-PF2/Vapor	1	TC	P & F Chilling Condenser	Other connector	> 10 (w/w)	Gas/Vapor
L	PF1-PF2/Vapor	2	TCT	Tri-Clamp to Thread Converter on Plate & Frame C	Other connector	> 10 (w/w)	Gas/Vapor
M	PF2/Out	1	TCT	Tri-Clamp to Thread Converter on Plate & Frame C	Other connector	> 10 (w/w)	Light Liquid
M	PF2/Out	2	TC	P & F Chilling Condenser	Other connector	> 10 (w/w)	Light Liquid
N	PF2-SEP/Condensate	1	TC	Top of Separator	Other connector	> 10 (w/w)	Light Liquid
N	PF2-SEP/Condensate	2	FL	Top of Separator for Submerged Fill		> 10 (w/w)	Light Liquid
O	PF2-VAC/Vacuum	1	TC	Into Vacuum Pump	Other connector	> 10 (w/w)	Gas/Vapor
AC	SEP-PT/Product	1	FL	Flange welded to threaded pipe into Product Pump	Flange	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	2	P	Product Pump	Pump in light liquid service	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	3	NIP	3" out of Product Pump	Other connector	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	4	90		Other connector	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	5	TP	14"	Other connector	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	6	FL	Between pump and valve	Flange	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	7	VALVE		Pump in light liquid service	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	8	Multi	Flange welded to pipe to tee which is welded to pipe to product receivers and coupling for air connection for blowing line empty	Other connector	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	9	FL		Flange	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	10	VALVE	Tank 105	Valve in light liquid service	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	11	FL	Tank 105	Flange	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	12	FL		Flange	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	13	VALVE	East Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	14	FL	Threaded	Flange	> 10 (w/w)	Light Liquid

Distillation Column Inspection

Distillation Collumn				Date monitored: 27 October 04	Perchloroethylene/MCH	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
AC	SEP-PT/Product	15	TP	6"	Other connector	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	16	CAM	Camlock	Other connector	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	17	FL		Flange	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	18	VALVE	West Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	19	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	20	TP	6"	Other connector	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	21	CAM	Camlock	Other connector	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	22	Pipe	From cross, 4"	Other connector	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	23	Reducer	2 1/2" x 2"	Other connector	> 10 (w/w)	Light Liquid
AC	SEP-PT/Product	24	Pipe	Between FL AC1 and pump	Other connector	> 10 (w/w)	Light Liquid
AD	SEP-PT/Air	1	NIP	East of REB, 1/2"	Other connector	> 10 (w/w)	Light Liquid
AD	SEP-PT/Air	2	VALVE	East of REB	Valve in light liquid service	> 10 (w/w)	Light Liquid
AD	SEP-PT/Air	3	Bushing	East of REB	Other connector	> 10 (w/w)	Light Liquid
AD	SEP-PT/Air	4	AF	East of REB, Air Fitting, can also be used for samp	Open-ended valve or line	> 10 (w/w)	Light Liquid

Distillation Column Inspection

: 0.0						
Compliance Method	Comments	Leak? Y/N	PPM Reading	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak						
Monthly LDAR						
Monthly LDAR						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New, Missing other half					
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak						
Monitor if evidence of leak						
Monthly LDAR						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Second valve or cap	Missing plug					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak						
Second valve or cap						
Monitor if evidence of leak						
Monitor if evidence of leak	New					

Distillation Column Inspection

: 0.0						
Compliance Method	Comments	Leak? Y/N	PPM Reading	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monthly LDAR	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak	Missing cap					
Monitor if evidence of leak	Missing tag					
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monthly LDAR						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak	New					
Monitor if evidence of leak						
Monthly LDAR						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						

Distillation Column Inspection

: 0.0						
Compliance Method	Comments	Leak? Y/N	PPM Reading	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					

Distillation Column Inspection

: 0.0						
Compliance Method	Comments	Leak? Y/N	PPM Reading	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak						
Monthly LDAR		N	287	5051		
Monitor if evidence of leak						
Monthly LDAR						
Monitor if evidence of leak						
Second valve or cap	Missing plug					
Monitor if evidence of leak	New					
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monthly LDAR						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak		y	768	5051		
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak	New					

Distillation Column Inspection

: 0.0						
Compliance Method	Comments	Leak? Y/N	PPM Reading	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak	New					
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak		Y	567.4	5051		
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monthly LDAR						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monthly LDAR						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monthly LDAR						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monthly LDAR						
Monitor if evidence of leak						

Distillation Column Inspection

: 0.0						
Compliance Method	Comments	Leak? Y/N	PPM Reading	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monthly LDAR						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak						
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak	New					
Monitor if evidence of leak						
Monthly LDAR						
Monitor if evidence of leak						
Second valve or cap	Missing plug					

Thin Film Evaporator Inspection

	Thin Filmer			Date monitored: 29 October 04	Xylenes	PID backgro
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
N	TF/In	1	CAM	Camlock Fitting	Other connector	> 10 (w/w)
N	TF/In	2	FL	Threaded	Flange	> 10 (w/w)
N	TF/In	3	FL	Open End Valve	Open-ended valve or line	> 10 (w/w)
N	TF/In	4	Valve	between N2 and N3	Valve in light liquid service	> 10 (w/w)
N	TF/In	5	FL	Tank 101 Connection	Flange	> 10 (w/w)
N	TF/In	6	FL	Valve from Tank 101	Flange	> 10 (w/w)
N	TF/In	7	Valve	between N5 and N6	Valve in light liquid service	> 10 (w/w)
N	TF/In	8	Multi	tee after N6, piping	Other connector	> 10 (w/w)
N	TF/In	9	FL	Threaded	Other connector	> 10 (w/w)
N	TF/In	10	TP	6"	Other connector	> 10 (w/w)
N	TF/In	11	Strainer		Other connector	> 10 (w/w)
N	TF/In	12	NIP	3"	Other connector	> 10 (w/w)
N	TF/In	13	UNION		Other connector	> 10 (w/w)
N	TF/In	14	NIP	1"	Other Connector	> 10 (w/w)
N	TF/In	15	Tee		Other Connector	> 10 (w/w)
N	TF/In	16	NIP	1"	Other Connector	> 10 (w/w)
N	TF/In	17	VALVE	# 3a before Pump	Valve in light liquid service	> 10 (w/w)
N	TF/In	18	Bushing	2" x 1 1/2"	Other Connector	> 10 (w/w)
N	TF/In	19	NIP	4"	Other Connector	> 10 (w/w)
N	TF/In	20	UNION		Other Connector	> 10 (w/w)
N	TF/In	21	NIP	6"	Other Connector	> 10 (w/w)
N	TF/In	22	P	Diaphragm Air Pump	Pump in light liquid service	> 10 (w/w)
N	TF/In	23	NIP	3"	Other Connector	> 10 (w/w)
N	TF/In	24	Bushing	1 1/4" x 2"	Other Connector	> 10 (w/w)
N	TF/In	25	90		Other Connector	> 10 (w/w)
N	TF/In	26	NIP	3"	Other Connector	> 10 (w/w)
N	TF/In	27	UNION		Other Connector	> 10 (w/w)
N	TF/In	28	NIP	2"	Other Connector	> 10 (w/w)
N	TF/In	29	VALVE	# 3b after Pump	Valve in light liquid service	> 10 (w/w)
N	TF/In	30	TP	8"	Other Connector	> 10 (w/w)
N	TF/In	31	Tee		Other Connector	> 10 (w/w)
N	TF/In	32	NIP	2"	Other Connector	> 10 (w/w)
N	TF/In	33	45		Other Connector	> 10 (w/w)

Thin Film Evaporator Inspection

	Thin Filmer			Date monitored: 29 October 04	Xylenes	PID backgro
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
N	TF/In	34	TP	12"	Other Connector	> 10 (w/w)
N	TF/In	35	VALVE	# 3c	Valve in light liquid service	> 10 (w/w)
N	TF/In	36	NIP	6"	Other Connector	> 10 (w/w)
N	TF/In	37	UNION		Other Connector	> 10 (w/w)
N	TF/In	38	TP	3'	Other Connector	> 10 (w/w)
N	TF/In	39	45		Other Connector	> 10 (w/w)
N	TF/In	40	TP	7'	Other Connector	> 10 (w/w)
N	TF/In	41	90		Other Connector	> 10 (w/w)
N	TF/In	42	NIP	5"	Other Connector	> 10 (w/w)
N	TF/In	43	FL	Threaded	Other Connector	> 10 (w/w)
N	TF/In	44	pipe		Other connector	> 10 (w/w)
L	TF/In Bypass	1	NP	5"	Other connector	> 10 (w/w)
L	TF/In Bypass	2	VALVE	Pump Bypass Valve # 3	Valve in light liquid service	> 10 (w/w)
L	TF/In Bypass	3	TP	7"	Other connector	> 10 (w/w)
O	TF	1	FL	Top Bearing Flange Connection	Flange	> 10 (w/w)
O	TF	2	FL	Top Flange Connection on Main Cylindrical Shell	Flange	> 10 (w/w)
O	TF	3	FL	Bottom Flange Connection on Main Cylindrical Shell	Flange	> 10 (w/w)
P	TF/Out	1	FL	Out	Flange	> 10 (w/w)
P	TF/Out	2	FL	Front Sight Glass	Flange	> 10 (w/w)
P	TF/Out	3	FL	Back Sight Glass	Flange	> 10 (w/w)
P	TF/Out	4	FL	Level Controller	Flange	> 10 (w/w)
P	TF/Out	5	FL	Threaded	Flange	> 10 (w/w)
P	TF/Out	6	NIP	4"	Other connector	> 10 (w/w)
P	TF/Out	7	VALVE		Valve in light liquid service	> 10 (w/w)
P	TF/Out	8	NIP	5"	Other connector	> 10 (w/w)
P	TF/Out	9	Tee		Other connector	> 10 (w/w)
P	TF/Out	10	CAM	Camlock	Other connector	> 10 (w/w)
P	TF/Out	11	P	Pump (not present)		> 10 (w/w)
P	TF/Out	12	Bushing	2" x 1/2" in side of Tee	Other connector	> 10 (w/w)
P	TF/Out	13	CAP	1/2" Plug	Open-ended valve or line	> 10 (w/w)
Q	TF/Out Distribution	1	FL	Flex Joint Connection from Pump	Other connector	> 10 (w/w)
Q	TF/Out Distribution	2	VALVE	1st Distribution Flanged Valve	Valve in light liquid service	> 10 (w/w)
Q	TF/Out Distribution	3	FL	On end of welded distribution pipe	Flange	> 10 (w/w)

Thin Film Evaporator Inspection

	Thin Filmer			Date monitored: 29 October 04	Xylenes	PID backgro
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
Q	TF/Out Distribution	4	Bushing	2" x 1/4"; 2" side welded into tee in distribution line	Other connector	> 10 (w/w)
Q	TF/Out Distribution	5	NIP	4" length	Other connector	> 10 (w/w)
Q	TF/Out Distribution	6	VALVE	for Air	Valve in light liquid service	> 10 (w/w)
Q	TF/Out Distribution	7	AF	Air Fitting for Blowing Line	Open-ended valve or line	> 10 (w/w)
Q	TF/Out Distribution	8	FL	To Tank 101	Flange	> 10 (w/w)
Q	TF/Out Distribution	9	VALVE	Valve to Tank 101	Valve in light liquid service	> 10 (w/w)
Q	TF/Out Distribution	10	FL	Flange on end of welded pipe to Tank 101	Flange	> 10 (w/w)
Q	TF/Out Distribution	11	FL	Into Tank 101	Flange	> 10 (w/w)
Q	TF/Out Distribution	12	FL	To Flush Tank	Flange	> 10 (w/w)
Q	TF/Out Distribution	13	VALVE	Valve to Flush Tank	Valve in light liquid service	> 10 (w/w)
Q	TF/Out Distribution	14	Multi	FL, 2' pipe, 90, 7' pipe up threaded on end	Other connector	> 10 (w/w)
Q	TF/Out Distribution	15	90		Other connector	> 10 (w/w)
Q	TF/Out Distribution	16	TP	12"	Other connector	> 10 (w/w)
Q	TF/Out Distribution	17	90		Other connector	> 10 (w/w)
Q	TF/Out Distribution	18	NIP	2"	Other connector	> 10 (w/w)
Q	TF/Out Distribution	19	TP	Coupling Inlet on Top of FLUSH TANK	Other connector	> 10 (w/w)
Q	TF/Out Distribution	20	FL	To Trough	Flange	> 10 (w/w)
Q	TF/Out Distribution	21	VALVE	Valve to Trough	Valve in light liquid service	> 10 (w/w)
Q	TF/Out Distribution	22	FL	Threaded	Flange	> 10 (w/w)
Q	TF/Out Distribution	23	TP	10' to East Trough	Other connector	> 10 (w/w)
Q	TF/Out Distribution	24	VALVE		Valve in light liquid service	> 10 (w/w)
Q	TF/Out Distribution	25	NIP	2"	Other connector	> 10 (w/w)
Q	TF/Out Distribution	26	90	Down	Other connector	> 10 (w/w)
Q	TF/Out Distribution	27	CAM	Camlock	Other connector	> 10 (w/w)
Q	TF/Out Distribution	28	FL	Connection to Line to Tank 105	Flange	> 10 (w/w)
Q	TF/Out Distribution	29	FL	To Tank 105	Flange	> 10 (w/w)
Q	TF/Out Distribution	30	VALVE	Valve to Tank 105	Valve in light liquid service	> 10 (w/w)
Q	TF/Out Distribution	31	FL	On Tank 105	Flange	> 10 (w/w)
R	TF-COND/Vapor	1	FL	Flex Joint	Flange	> 10 (w/w)
R	TF-COND/Vapor	2	FL	Flex Joint	Flange	> 10 (w/w)
R	TF-COND/Vapor	3	TT	Temperature Transmitter on Top	Other connector	> 10 (w/w)
R	TF-COND/Vapor	4	NIP	2" on Bottom	Other connector	> 10 (w/w)
R	TF-COND/Vapor	5	90		Other connector	> 10 (w/w)

Thin Film Evaporator Inspection

	Thin Filmer			Date monitored: 29 October 04	Xylenes	PID backgro
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
R	TF-COND/Vapor	6	NIP	2"	Other connector	> 10 (w/w)
R	TF-COND/Vapor	7	VALVE	Drain Valve	Valve in light liquid service	> 10 (w/w)
A	COND	1	CAP	Blind Flange on South Inlet End	Open-ended valve or line	> 10 (w/w)
A	COND	2	CAP	Blind Flange on North Outlet End	Open-ended valve or line	> 10 (w/w)
A	COND	3	FL	2" Unused Outlet Facing East	Flange	> 10 (w/w)
A	COND	4	FL	Threaded	Flange	> 10 (w/w)
A	COND	5	Bushing	2" x 1"	Other connector	> 10 (w/w)
A	COND	6	Bushing	1" x 1/2"	Other connector	> 10 (w/w)
A	COND	7	CAP	Plug	Other connector	> 10 (w/w)
B	COND/Condensate	1	FL	Condensate Outlet	Other connector	> 10 (w/w)
B	COND/Condensate	2	FL	Threaded	Other connector	> 10 (w/w)
B	COND/Condensate	3	Bushing	3" x 2"	Other connector	> 10 (w/w)
B	COND/Condensate	4	NIP	2"	Other connector	> 10 (w/w)
B	COND/Condensate	5	CROSS		Other connector	> 10 (w/w)
B	COND/Condensate	6	Bushing	2" x 1" for Temperature Transmitter	Other connector	> 10 (w/w)
B	COND/Condensate	7	TT	Temperature Transmitter	Other connector	> 10 (w/w)
B	COND/Condensate	8	Bushing	2" x 3/4" for SV	Other connector	> 10 (w/w)
B	COND/Condensate	9	Bushing	3/4" x 1/4" for SV	Other connector	> 10 (w/w)
B	COND/Condensate	10	NIP	1"	Other connector	> 10 (w/w)
B	COND/Condensate	11	SV	Sample Valve from Bottom of Cross	Valve in light liquid service	> 10 (w/w)
B	COND/Condensate	12	TP	7" from Cross to 3-Way Tee Valve	Other connector	> 10 (w/w)
B	COND/Condensate	13	TV	Into 3-Way Tee Valve	Valve in light liquid service	> 10 (w/w)
B	COND/Condensate	14	TV	3-Way Tee Valve to Receiver	Valve in light liquid service	> 10 (w/w)
B	COND/Condensate	15	Multi	TP welded to 90	Other connector	> 10 (w/w)
B	COND/Condensate	16	NIP	5"	Other connector	> 10 (w/w)
B	COND/Condensate	17	UNION		Other connector	> 10 (w/w)
B	COND/Condensate	18	TP	RECEIVER Top Inlet	Other connector	> 10 (w/w)
C	COND/Flush	1	TV	3-Way Tee Valve to Flush Tank	Valve in light liquid service	> 10 (w/w)
C	COND/Flush	2	TP	Two TP welded together with coupling for proper angle	Other connector	> 10 (w/w)
C	COND/Flush	3	90		Other connector	> 10 (w/w)
C	COND/Flush	4	NIP	4"	Other connector	> 10 (w/w)
C	COND/Flush	5	UNION		Other connector	> 10 (w/w)
C	COND/Flush	6	TP	FLUSH TANK Top Inlet	Other connector	> 10 (w/w)

Thin Film Evaporator Inspection

	Thin Filmer			Date monitored: 29 October 04	Xylenes	PID backgro
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
E	FLUSH TANK/SG	1	Bushing	3/4" x 1/2"	Other connector	> 10 (w/w)
E	FLUSH TANK/SG	2	VALVE	Top of Sight Glass	Valve in light liquid service	> 10 (w/w)
E	FLUSH TANK/SG	3	VALVE	Bottom of Sight Glass	Valve in light liquid service	> 10 (w/w)
E	FLUSH TANK/SG	4	Bushing	1/2" x 3/4"	Other connector	> 10 (w/w)
E	FLUSH TANK/SG	5	NIP	1" From Bottom of Sight Glass	Other connector	> 10 (w/w)
E	FLUSH TANK/SG	6	SV	Sample Valve	Valve in light liquid service	> 10 (w/w)
D	FLUSH TANK/Bottom	1	TP	Coupling Outlet on Bottom of FLUSH TANK	Other connector	> 10 (w/w)
D	FLUSH TANK/Bottom	2	NIP	3"	Other connector	> 10 (w/w)
D	FLUSH TANK/Bottom	3	Tee		Other connector	> 10 (w/w)
D	FLUSH TANK/Bottom	4	NIP	2"	Other connector	> 10 (w/w)
D	FLUSH TANK/Bottom	5	VALVE	Bottom Valve # 24	Valve in light liquid service	> 10 (w/w)
D	FLUSH TANK/Bottom	6	NIP	2" down from Tee (# 3)	Other connector	> 10 (w/w)
D	FLUSH TANK/Bottom	7	CAM	2" Camlock	Other connector	> 10 (w/w)
D	FLUSH TANK/Bottom	8	NIP	2" west from Tee (# 3)	Other connector	> 10 (w/w)
D	FLUSH TANK/Bottom	9	VALVE	Side Valve # 25	Valve in light liquid service	> 10 (w/w)
D	FLUSH TANK/Bottom	10	Bushing	2" x 1"	Other connector	> 10 (w/w)
D	FLUSH TANK/Bottom	11	NIP	2"	Other connector	> 10 (w/w)
D	FLUSH TANK/Bottom	12	CAM	1" Camlock	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	1	TP	20"	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	2	90		Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	3	TP	4'	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	4	90		Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	5	TP	5'	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	6	UNION		Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	7	TP	7"	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	8	Tee	for Vacuum Guage	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	9	Bushing	2" x 1/4"	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	10	90	Brass	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	11	NIP	1"	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	12	VG	Vacuum Guage	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	13	TP	7" down from Tee (# 8)	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	14	Tee	for Bleed Valve	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	15	Bushing	2" x 1/2"	Other connector	> 10 (w/w)

Thin Film Evaporator Inspection

	Thin Filmer			Date monitored: 29 October 04	Xylenes	PID backgro
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
F	FLUSH TANK/Vacuum	16	VALVE	Bleed Valve	Valve in gas/vapor service	> 10 (w/w)
F	FLUSH TANK/Vacuum	17	NIP	4" East from Tee (# 14)	Other connector	> 10 (w/w)
F	FLUSH TANK/Vacuum	18	VALVE	Vacuum Control	Valve in gas/vapor service	> 10 (w/w)
F	FLUSH TANK/Vacuum	19	NIP	4" into Tee linking Vacuum Line from RECEIVER	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	1	TP	18" Up	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	2	90		Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	3	TP	5.5' SE	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	4	90		Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	5	TP	7' Down	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	6	UNION		Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	7	NIP	4"	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	8	90		Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	9	NIP	6"	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	10	CROSS	for VG on Top and Bleed Valve on Bottom	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	11	Bushing	2" x 1/4" on Top of Cross	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	12	NIP	Spiral Nipple	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	13	VALVE	for Vacuum Guage	Valve in gas/vapor service	> 10 (w/w)
M	RECEIVER/Vacuum	14	NIP	1"	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	15	VG	Vacuum Guage	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	16	Bushing	2" x 1/2" on Bottom of Cross	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	17	NIP	2"	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	18	VALVE	Bleed Valve	Valve in gas/vapor service	> 10 (w/w)
M	RECEIVER/Vacuum	19	TP	7" East from CROSS	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	20	VALVE	Vacuum Control	Valve in gas/vapor service	> 10 (w/w)
M	RECEIVER/Vacuum	21	TP	9"	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	22	90		Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	23	TP	12" up into Tee	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	24	Tee	Links Vacuum Lines from RECEIVER & FLUSH TANK	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	25	TP	30" East from Tee	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	26	90		Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	27	TP	8' North	Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	28	90		Other connector	> 10 (w/w)
M	RECEIVER/Vacuum	29	TP	3.5' down	Other connector	> 10 (w/w)

Thin Film Evaporator Inspection

	Thin Filmer			Date monitored: 29 October 04	Xylenes	PID backgro
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
M	RECEIVER/Vacuum	30	CV	Into Vacuum Pump	Other connector	> 10 (w/w)
N	RECEIVER	1	CAP	2" Plug on Top	Other connector	> 10 (w/w)
I	RECEIVER/Level	1	FL	On RECEIVER for Level Controller	Flange	> 10 (w/w)
I	RECEIVER/Level	2	FL	Level Controller	Flange	> 10 (w/w)
K	RECEIVER/SG	1	Bushing	3/4" x 1/2"	Other connector	> 10 (w/w)
K	RECEIVER/SG	2	VALVE	Top of Sight Glass	Valve in light liquid service	> 10 (w/w)
K	RECEIVER/SG	3	VALVE	Bottom of Sight Glass	Valve in light liquid service	> 10 (w/w)
K	RECEIVER/SG	4	Bushing	1/2" x 3/4"	Other connector	> 10 (w/w)
K	RECEIVER/SG	5	NIP	1" From Bottom of Sight Glass	Other connector	> 10 (w/w)
K	RECEIVER/SG	6	SV	Sample Valve	Valve in light liquid service	> 10 (w/w)
G	RECEIVER/Bottom	1	TP	Coupling Outlet on Bottom of RECEIVER	Other connector	> 10 (w/w)
G	RECEIVER/Bottom	2	NIP	2"	Other connector	> 10 (w/w)
G	RECEIVER/Bottom	3	VALVE		Valve in light liquid service	> 10 (w/w)
G	RECEIVER/Bottom	4	Bushing	2" x 1"	Other connector	> 10 (w/w)
G	RECEIVER/Bottom	5	TP	3.5' down into Tee	Other connector	> 10 (w/w)
G	RECEIVER/Bottom	6	Tee		Other connector	> 10 (w/w)
H	RECEIVER/Drain	1	NIP	4" East from Bottom Line Tee	Other connector	> 10 (w/w)
H	RECEIVER/Drain	2	VALVE		Valve in light liquid service	> 10 (w/w)
H	RECEIVER/Drain	3	NIP	1"	Other connector	> 10 (w/w)
H	RECEIVER/Drain	4	Bushing	1" x 2"	Other connector	> 10 (w/w)
H	RECEIVER/Drain	5	CAM	Camlock	Other connector	> 10 (w/w)
J	RECEIVER/Product	1	NIP	1" West from Bottom Line Tee	Other connector	> 10 (w/w)
J	RECEIVER/Product	2	VALVE	Before Pump	Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	3	TP	7" West towards Pump	Other connector	> 10 (w/w)
J	RECEIVER/Product	4	Reducer	1" x 3/4"	Other connector	> 10 (w/w)
J	RECEIVER/Product	5	NIP	1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	6	FL	Threaded	Flange	> 10 (w/w)
J	RECEIVER/Product	7	P	Flanged Pump	Pump in light liquid service	> 10 (w/w)
J	RECEIVER/Product	8	FL	Threaded	Flange	> 10 (w/w)
J	RECEIVER/Product	9	NIP	2"	Other connector	> 10 (w/w)
J	RECEIVER/Product	10	Reducer	3/4" x 1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	11	NIP	1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	12	Bushing	1" x 2"	Other connector	> 10 (w/w)

Thin Film Evaporator Inspection

	Thin Filmer			Date monitored: 29 October 04	Xylenes	PID backgro
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
J	RECEIVER/Product	13	UNION		Other connector	> 10 (w/w)
J	RECEIVER/Product	14	Bushing	2" x 1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	15	NIP	1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	16	VALVE	After Pump	Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	17	NIP	4"	Other connector	> 10 (w/w)
J	RECEIVER/Product	18	Tee		Other connector	> 10 (w/w)
J	RECEIVER/Product	19	NIP	2" West from Tee	Other connector	> 10 (w/w)
J	RECEIVER/Product	20	VALVE	Drain	Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	21	NIP	2"	Other connector	> 10 (w/w)
J	RECEIVER/Product	22	90	Down	Other connector	> 10 (w/w)
J	RECEIVER/Product	23	TP	20" up from Tee (# 18) to Tee (# 24)	Other connector	> 10 (w/w)
J	RECEIVER/Product	24	Tee		Other connector	> 10 (w/w)
J	RECEIVER/Product	25	NIP	5" South from Tee (# 24)	Other connector	> 10 (w/w)
J	RECEIVER/Product	26	VALVE	for Air Blowing of Line	Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	27	NIP	3" South	Other connector	> 10 (w/w)
J	RECEIVER/Product	28	CAM	Male	Other connector	> 10 (w/w)
J	RECEIVER/Product	29	CAM	Female	Other connector	> 10 (w/w)
J	RECEIVER/Product	30	Bushing	1" x 1/2"	Other connector	> 10 (w/w)
J	RECEIVER/Product	31	Bushing	1/2" X 1/4"	Other connector	> 10 (w/w)
J	RECEIVER/Product	32	NIP	1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	33	VALVE	for Air Blowing of Line	Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	34	AF	Air Fitting	Other connector	> 10 (w/w)
J	RECEIVER/Product	35	TP	8" North into Tee (# 36)	Other connector	> 10 (w/w)
J	RECEIVER/Product	36	Tee		Other connector	> 10 (w/w)
J	RECEIVER/Product	37	TP	12" North from Tee (# 36)	Other connector	> 10 (w/w)
J	RECEIVER/Product	38	UNION		Other connector	> 10 (w/w)
J	RECEIVER/Product	39	Bushing	1" x 3/4"	Other connector	> 10 (w/w)
J	RECEIVER/Product	40	NIP	4"	Other connector	> 10 (w/w)
J	RECEIVER/Product	41	CV	Level Control Valve	Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	42	NIP	1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	43	Reducer	3/4" x 1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	44	NIP	2" into Tee (# 45)	Other connector	> 10 (w/w)
J	RECEIVER/Product	45	Tee		Other connector	> 10 (w/w)

Thin Film Evaporator Inspection

	Thin Filmer			Date monitored: 29 October 04	Xylenes	PID backgro
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
J	RECEIVER/Product	46	TP	6" down from Tee (# 45) for start of Level Control Bypass Line	Other connector	> 10 (w/w)
J	RECEIVER/Product	47	90	Level Control Bypass Line	Other connector	> 10 (w/w)
J	RECEIVER/Product	48	NIP	4" North from 90	Other connector	> 10 (w/w)
J	RECEIVER/Product	49	VALVE	Level Control Bypass Line Valve	Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	50	NIP	2"	Other connector	> 10 (w/w)
J	RECEIVER/Product	51	UNION		Other connector	> 10 (w/w)
J	RECEIVER/Product	52	TP	16" North into Tee (# 52)	Other connector	> 10 (w/w)
J	RECEIVER/Product	53	Tee	Level Control Bypass Line	Other connector	> 10 (w/w)
J	RECEIVER/Product	54	NIP	3" Down from Tee (# 53)	Other connector	> 10 (w/w)
J	RECEIVER/Product	55	VALVE	Level Control Bypass Line Drain Valve	Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	56	TP	7" Up from Tee (# 53) in Level Control Bypass Line into Tee (# 4	Other connector	> 10 (w/w)
J	RECEIVER/Product	57	NIP	3" North into Tee (# 58)	Other connector	> 10 (w/w)
J	RECEIVER/Product	58	Tee		Other connector	> 10 (w/w)
J	RECEIVER/Product	59	NIP	2" Up from Tee (# 58)	Other connector	> 10 (w/w)
J	RECEIVER/Product	60	90		Other connector	> 10 (w/w)
J	RECEIVER/Product	61	NIP	4" East	Other connector	> 10 (w/w)
J	RECEIVER/Product	62	90		Other connector	> 10 (w/w)
J	RECEIVER/Product	63	NIP	5" Up	Other connector	> 10 (w/w)
J	RECEIVER/Product	64	VALVE	Up To Tee (# 70) for West Trough & Blend Room Trough	Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	65	TP	10' up	Other connector	> 10 (w/w)
J	RECEIVER/Product	66	UNION		Other connector	> 10 (w/w)
J	RECEIVER/Product	67	NIP	3"	Other connector	> 10 (w/w)
J	RECEIVER/Product	68	VALVE		Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	69	NIP	1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	70	Tee		Other connector	> 10 (w/w)
J	RECEIVER/Product	71	NIP	2" North from Tee (# 70)	Other connector	> 10 (w/w)
J	RECEIVER/Product	72	VALVE		Other connector	> 10 (w/w)
J	RECEIVER/Product	73	NIP	4"	Other connector	> 10 (w/w)
J	RECEIVER/Product	74	UNION		Other connector	> 10 (w/w)
J	RECEIVER/Product	75	TP	3.5'	Other connector	> 10 (w/w)
J	RECEIVER/Product	76	90	down	Other connector	> 10 (w/w)
J	RECEIVER/Product	77	TP	20"	Other connector	> 10 (w/w)
J	RECEIVER/Product	78	90	North	Other connector	> 10 (w/w)

Thin Film Evaporator Inspection

	Thin Filmer			Date monitored: 29 October 04	Xylenes	PID backgro
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
J	RECEIVER/Product	79	TP	8"	Other connector	> 10 (w/w)
J	RECEIVER/Product	80	90	West	Other connector	> 10 (w/w)
J	RECEIVER/Product	81	TP	28"	Other connector	> 10 (w/w)
J	RECEIVER/Product	82	90	down	Other connector	> 10 (w/w)
J	RECEIVER/Product	83	TP	7'	Other connector	> 10 (w/w)
J	RECEIVER/Product	84	UNION		Other connector	> 10 (w/w)
J	RECEIVER/Product	85	NIP	4"	Other connector	> 10 (w/w)
J	RECEIVER/Product	86	90	West	Other connector	> 10 (w/w)
J	RECEIVER/Product	87	NIP	2" into back of West Trough	Other connector	> 10 (w/w)
J	RECEIVER/Product	88	NIP	2" out into West Trough	Other connector	> 10 (w/w)
J	RECEIVER/Product	89	VALVE		Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	90	NIP	1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	91	Camlock		Other connector	> 10 (w/w)
J	RECEIVER/Product	92	NIP	2" South from Tee (# 70)	Other connector	> 10 (w/w)
J	RECEIVER/Product	93	UNION		Other connector	> 10 (w/w)
J	RECEIVER/Product	94	NIP	4"	Other connector	> 10 (w/w)
J	RECEIVER/Product	95	VALVE		Other connector	> 10 (w/w)
J	RECEIVER/Product	96	TP	5'	Other connector	> 10 (w/w)
J	RECEIVER/Product	97	45	SW	Other connector	> 10 (w/w)
J	RECEIVER/Product	98	TP	12"	Other connector	> 10 (w/w)
J	RECEIVER/Product	99	45	South	Other connector	> 10 (w/w)
J	RECEIVER/Product	100	TP	14'	Other connector	> 10 (w/w)
J	RECEIVER/Product	101	UNION		Other connector	> 10 (w/w)
J	RECEIVER/Product	102	TP	16"	Other connector	> 10 (w/w)
J	RECEIVER/Product	103	90	down	Other connector	> 10 (w/w)
J	RECEIVER/Product	104	TP	16"	Other connector	> 10 (w/w)
J	RECEIVER/Product	105	90	West	Other connector	> 10 (w/w)
J	RECEIVER/Product	106	TP	30"	Other connector	> 10 (w/w)
J	RECEIVER/Product	107	Coupling		Other connector	> 10 (w/w)
J	RECEIVER/Product	108	TP	28"	Other connector	> 10 (w/w)
J	RECEIVER/Product	109	90	down	Other connector	> 10 (w/w)
J	RECEIVER/Product	110	NIP	1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	111	90	South	Other connector	> 10 (w/w)

Thin Film Evaporator Inspection

	Thin Filmer			Date monitored: 29 October 04	Xylenes	PID backgro
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
J	RECEIVER/Product	112	TP	10" through wall	Other connector	> 10 (w/w)
J	RECEIVER/Product	113	90	down	Other connector	> 10 (w/w)
J	RECEIVER/Product	114	NIP	1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	115	90	East	Other connector	> 10 (w/w)
J	RECEIVER/Product	116	TP	4'	Other connector	> 10 (w/w)
J	RECEIVER/Product	117	UNION		Other connector	> 10 (w/w)
J	RECEIVER/Product	118	TP	4'	Other connector	> 10 (w/w)
J	RECEIVER/Product	119	90	down	Other connector	> 10 (w/w)
J	RECEIVER/Product	120	TP	8'	Other connector	> 10 (w/w)
J	RECEIVER/Product	121	90	South	Other connector	> 10 (w/w)
J	RECEIVER/Product	122	NIP	3"	Other connector	> 10 (w/w)
J	RECEIVER/Product	123	UNION		Other connector	> 10 (w/w)
J	RECEIVER/Product	124	NIP	2" into back of Blend Room Trough	Other connector	> 10 (w/w)
J	RECEIVER/Product	125	NIP	1" out into Blend Room Trough	Other connector	> 10 (w/w)
J	RECEIVER/Product	126	VALVE		Valve in light liquid service	> 10 (w/w)
J	RECEIVER/Product	127	NIP	1"	Other connector	> 10 (w/w)
J	RECEIVER/Product	128	Camlock	with Cap	Other connector	> 10 (w/w)
J	RECEIVER/Product	129	NIP	1" North from Tee (# 58)	Other connector	> 10 (w/w)
J	RECEIVER/Product	130	CAM	Camlock Fitting with Cap	Other connector	> 10 (w/w)

Thin Film Evaporator Inspection

Background reading: 0.0						
HW State	Compliance Method	PPM	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Light Liquid	Second valve or cap					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Second valve or cap					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					

Thin Film Evaporator Inspection

Leak detection method reading: 0.0		PPM	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
HW State	Compliance Method					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Second valve or cap					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					

Thin Film Evaporator Inspection

Background reading: 0.0		PPM	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
HW State	Compliance Method					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Gas/Vapor	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Gas/Vapor	Monitor if evidence of leak					
Gas/Vapor	Monitor if evidence of leak					
Gas/Vapor	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					

Thin Film Evaporator Inspection

Background reading: 0.0		PPM	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
HW State	Compliance Method					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	No detectable emissions					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					

Thin Film Evaporator Inspection

Background reading: 0.0						
HW State	Compliance Method	PPM	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monthly LDAR					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
Light Liquid	Monitor if evidence of leak					
	green = no leaks					
	red = leak detected					

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
S	VP to VPT	1	FL	FL to Tee for VPT	Flange	> 10 (w/w)	Gas/Vapor
S	VP to VPT	2	FL	VPT	Flange	> 10 (w/w)	Gas/Vapor
S	VP to VPT	3	FL	2" Blind Flange opposite of VPT on Tee	Flange	> 10 (w/w)	Gas/Vapor
S	VP to VPT	4	Tee		Other connector	> 10 (w/w)	Gas/Vapor
S	VP to VPT	5	VPT		Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	1	CAP	Connection for Upper PDT	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	2	CAP	Connection for Lower PDT	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	3	TP	For VPG, south side, 3/4" Threaded Outlet	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	4	Coupling	For VPG, south side,	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	5	Bushing	For VPG, south side, 3/4" x 1/4"	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	6	VPG	Vacuum Pressure Gauge	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	7	CAP	Blind Flange Center of Top, 19"OD	Flange	> 10 (w/w)	Gas/Vapor
T	VP Top	8	CAP	Manway on SE	Flange	> 10 (w/w)	Gas/Vapor
T	VP Top	9	SG	2" Flange	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	10	SG	4" Flange	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	11	FL	Pressure Relief Valve	Flange	> 10 (w/w)	Gas/Vapor
T	VP Top	12	FL	Threaded for Steam Connection	Flange	> 10 (w/w)	Gas/Vapor
T	VP Top	13	NIP	1"	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	14	VALVE		Valve in gas/vapor service	> 10 (w/w)	Gas/Vapor
T	VP Top	15	NIP	1"	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	16	SQRF		Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	17	Bushing	For PRV	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	18	PRV	Pressure Relief Valve	Pressure relief devices	> 10 (w/w)	Gas/Vapor
T	VP Top	19	Pipe	For PRV, 3"L, 3"OD	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	20	90	For PRV	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	21	Pipe	For PRV, up	Other connector	> 10 (w/w)	Gas/Vapor
T	VP Top	22	Vent	For PRV, open (hat)	Other connector	> 10 (w/w)	Gas/Vapor
U	VP/Lower Platform	1	Bushing	1" x 1/4" just above platform on NW	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	2	CAP	1/4" Plug	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	3	FL	Upper PDT, southwest top VP	Flange	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	4	FL	Lower PDT, southwest middle VP	Flange	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	5	Pipe	Outlet Connection for Upper T	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	6	FL	FL with coupling for TG, south VP	Flange	> 10 (w/w)	Light Liquid

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
U	VP/Lower Platform	7	TG	Temperature Guage, south VP	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	8	FL	Temperature Transmitter, south	Flange	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	9	FL	Outlet for Upper Side Sample Valve	Flange	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	10	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	11	Bushing	1" x 1/4"	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	12	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	13	90	Female Threads x Male Threads	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	14	SV	Sample Valve	Valve in light liquid service	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	15	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	16	FL	Outlet for Lower Side Sample Valve	Flange	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	17	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	18	Bushing	1" x 1/4"	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	19	90	Male Threads x Female Threads	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	20	NIP	1/2"	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	21	SV		Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	22	AF	out of SV	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	23	FL	Lower Temperature Guage	Flange	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	24	Coupling	Coupling for TG	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	25	TG	Temperature Guage	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	26	Bushing	South VP	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	27	Bushing	South VP	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	28	NIP	South VP	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	29	UNION	South VP	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	30	NIP	South VP	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	31	TT	South VP, Temperature Transmitter	Other connector	> 10 (w/w)	Light Liquid
U	VP/Lower Platform	32	PDT		Other connector	> 10 (w/w)	Light Liquid
V	VP/SG	1	Plug	In Top of Sight Glass Valve	Other connector	> 10 (w/w)	Light Liquid
V	VP/SG	2	VALVE	Top of Sight Glass	Valve in light liquid service	> 10 (w/w)	Light Liquid
V	VP/SG	3	VALVE	Bottom of Sight Glass	Valve in light liquid service	> 10 (w/w)	Light Liquid
V	VP/SG	4	NIP	1/2" from Bottom of Sight Glass Valve	Other connector	> 10 (w/w)	Light Liquid
V	VP/SG	5	SV		Other connector	> 10 (w/w)	Light Liquid
V	VP/SG	6	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
W	VP/Bottom	1	FL	Bottom Outlet	Flange	> 10 (w/w)	Light Liquid

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
W	VP/Bottom	2	Reducer	6" x 4"	Other connector	> 10 (w/w)	Light Liquid
W	VP/Bottom	3	VALVE	# 4	Valve in light liquid service	> 10 (w/w)	Light Liquid
W	VP/Bottom	4	FL	Bottom blind flange	Flange	> 10 (w/w)	Light Liquid
W	VP/Bottom	5	FL	Top of valve W3, bottom reducer	Flange	> 10 (w/w)	Light Liquid
W	VP/Bottom	6	Pipe	6"OD from bottom VP	Other connector	> 10 (w/w)	Light Liquid
X	VP/T Fill	1	Pipe	Top Fill Inlet	Other connector	> 10 (w/w)	Light Liquid
X	VP/T Fill	2	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
X	VP/T Fill	3	TP	4" up	Other connector	> 10 (w/w)	Light Liquid
X	VP/T Fill	4	90		Other connector	> 10 (w/w)	Light Liquid
X	VP/T Fill	5	TP	3' into side of 2" 3-Way Tee Valve (# 6)	Other connector	> 10 (w/w)	Light Liquid
X	VP/T Fill	6	VALVE	2" 3-Way Tee Valve	Valve in light liquid service	> 10 (w/w)	Light Liquid
X	VP/T Fill	7	FL	Threaded, In Top Inlet Line from Tank 124 18" above 2" 3-Way Tee Valve (#6)	Flange	> 10 (w/w)	Light Liquid
X	VP/T Fill	8	TP	18" into top of 2" 3-Way Tee Valve (# 6)	Other connector	> 10 (w/w)	Light Liquid
X	VP/T Fill	9	Pipe	Threads from bottom of 2" 3-Way Tee Valve (# 6) welded to 8' pipe, socket coupling, and ending with a FL with connects to top of Top vs. Bottom Fill Valve	Other connector	> 10 (w/w)	Light Liquid
X	VP/T Fill	10	VALVE	Top vs. Bottom Fill Valve	Valve in light liquid service	> 10 (w/w)	Light Liquid
X	VP/T Fill	11	FL	To Bottom of Top vs. Bottom Fill Valve	Flange	> 10 (w/w)	Light Liquid
X	VP/T Fill	12	FL	top of valve Y9	Flange		Light Liquid
Y	VP/Bottom Fill	1	FL	Connected to Valve # 5	Flange	> 10 (w/w)	Light Liquid
Y	VP/Bottom Fill	2	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
Y	VP/Bottom Fill	3	FL	Threaded, Connected to Valve Y2	Flange	> 10 (w/w)	Light Liquid
Y	VP/Bottom Fill	4	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
Y	VP/Bottom Fill	5	Y		Other connector	> 10 (w/w)	Light Liquid
Y	VP/Bottom Fill	6	NIP	from Y heading 45 down	Other connector	> 10 (w/w)	Light Liquid
Y	VP/Bottom Fill	7	Camlock		Other connector	> 10 (w/w)	Light Liquid
Y	VP/Bottom Fill	8	Pipe	Threads North from Y ending in a flange	Other connector	> 10 (w/w)	Light Liquid
Y	VP/Bottom Fill	9	VALVE	Outside Bottom Fill Valve	Valve in light liquid service	> 10 (w/w)	Light Liquid
Y	VP/Bottom Fill	10	Pipe	FL to Tee connecting up to # 12 of T Fill and down and around to East & West Troughs	Other connector	> 10 (w/w)	Light Liquid
Y	VP/Bottom Fill	11	FL	South Valve Y9	Flange	> 10 (w/w)	Light Liquid

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
Y	VP/Bottom Fill	12	FL	North Valve Y9	Flange	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	1	Pipe	VP Outlet, 90 down	Other connector	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	2	FL	4" Line down to 3-Way Valve	Flange	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	3	Bushing	1/2" x 1/4" for VPG	Other connector	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	4	VPG	Vacuum Pressure Guage	Other connector	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	5	FL	4" into Top of 3-Way Tee Valve	Flange	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	6	FL	4" 3-Way Tee Valve Flush In Line Connection, south	Flange	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	7	FL	4" out of 3-Way Tee Valve, north	Flange	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	8	FL	Flex Joint Into Pump, south	Flange	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	9	FL	Flex Joint Into Pump, north	Flange	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	10	P	Pump	Pump in light liquid service	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	11	FL	Flex Joint Out of Pump, bottom	Flange	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	12	FL	Flex Joint Out of Pump, top	Flange	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	13	Bushing	for VPG, 1/2" x 1/4" for VPG	Other connector	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	14	VPG	Vacuum Pressure Guage	Other connector	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	15	Pipe	Connects to HE Inlet, holds VPG Z14	Other connector	> 10 (w/w)	Light Liquid
Z	VP-HE/Liquid	16	FL	HE Inlet	Flange	> 10 (w/w)	Light Liquid
E	HE	1	FL	HE In End Cap	Flange	> 10 (w/w)	Light Liquid
E	HE	2	TP	3" drain from In End Cap	Other connector	> 10 (w/w)	Light Liquid
E	HE	3	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
E	HE	4	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
E	HE	5	Camlock		Open-ended valve or line	> 10 (w/w)	Light Liquid
E	HE	6	FL	HE Out End Cap, west	Flange	> 10 (w/w)	Light Liquid
E	HE	7	Coupling	South out of Out End Cap for TG	Other connector	> 10 (w/w)	Light Liquid
E	HE	8	TG	Temperature Guage	Other connector	> 10 (w/w)	Light Liquid
E	HE	9	TP	3" drain from Out End Cap	Other connector	> 10 (w/w)	Light Liquid
E	HE	10	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
E	HE	11	NIP	3"	Other connector	> 10 (w/w)	Light Liquid
E	HE	12	Camlock		Other connector	> 10 (w/w)	Light Liquid
H	HE-VP/Mix	1	FL	Heat Exchanger Out	Flange	> 10 (w/w)	Light Liquid
H	HE-VP/Mix	2	FL	2" into Bottom of 3-Way Tee Valve, bottom	Flange	> 10 (w/w)	Light Liquid
H	HE-VP/Mix	3	VALVE	2" 3-Way Tee Valve Flush Out Line Connection	Valve in light liquid service	> 10 (w/w)	Light Liquid
H	HE-VP/Mix	4	FL	2" out of 3-Way Tee Valve, top	Flange	> 10 (w/w)	Light Liquid

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
H	HE-VP/Mix	5	Coupling	for PG	Other connector	> 10 (w/w)	Light Liquid
H	HE-VP/Mix	6	Bushing	for PG	Other connector	> 10 (w/w)	Light Liquid
H	HE-VP/Mix	7	90	for PG	Other connector	> 10 (w/w)	Light Liquid
H	HE-VP/Mix	8	PG	for PG	Other connector	> 10 (w/w)	Light Liquid
H	HE-VP/Mix	9	Pipe	Holds PG 16"L	Other connector	> 10 (w/w)	Light Liquid
H	HE-VP/Mix	10	Pipe	90 bend to VP from FLH4	Other connector	> 10 (w/w)	Light Liquid
F	HE/Flush In	1	Camlock	for connection from bottom of flush tank tote	Other connector	> 10 (w/w)	Light Liquid
F	HE/Flush In	2	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
F	HE/Flush In	3	TP	8.5' West	Other connector	> 10 (w/w)	Light Liquid
F	HE/Flush In	4	FL	threaded	Flange	> 10 (w/w)	Light Liquid
F	HE/Flush In	5	Multi	FL, 6" pipe, 90 south, 4.5' pipe, 90 west, 20" pipe	Other connector	> 10 (w/w)	Light Liquid
F	HE/Flush In	6	UNION		Other connector	> 10 (w/w)	Light Liquid
F	HE/Flush In	7	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
F	HE/Flush In	8	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
F	HE/Flush In	9	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
G	HE/Flush Out	1	FL	threaded, connecting from side of 2" 3-Way Tee	Flange	> 10 (w/w)	Light Liquid
G	HE/Flush Out	2	TP	6"	Other connector	> 10 (w/w)	Light Liquid
G	HE/Flush Out	3	90	down	Other connector	> 10 (w/w)	Light Liquid
G	HE/Flush Out	4	TP	20" down into Tee (# 5)	Other connector	> 10 (w/w)	Light Liquid
G	HE/Flush Out	5	Tee		Other connector	> 10 (w/w)	Light Liquid
G	HE/Flush Out	6	Bushing	2" x 1/2" West from Tee (# 5)	Other connector	> 10 (w/w)	Light Liquid
G	HE/Flush Out	7	Plug		Other connector	> 10 (w/w)	Light Liquid
G	HE/Flush Out	8	Pipe	TP 6' to welded 90 down 6" to threads	Other connector	> 10 (w/w)	Light Liquid
G	HE/Flush Out	9	FL	threaded	Flange	> 10 (w/w)	Light Liquid
G	HE/Flush Out	10	Pipe	FL, 20" pipe down, 90 East, 20" pipe, FL	Other connector	> 10 (w/w)	Light Liquid
G	HE/Flush Out	11	FL	threaded	Flange	> 10 (w/w)	Light Liquid
G	HE/Flush Out	12	TP	8'	Other connector	> 10 (w/w)	Light Liquid
G	HE/Flush Out	13	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
G	HE/Flush Out	14	NIP	3"	Other connector	> 10 (w/w)	Light Liquid
G	HE/Flush Out	15	Camlock	for connection to top of flush tank tote	Other connector	> 10 (w/w)	Light Liquid
AA	VP-CYC/Vapor	1	FL	VP Outlet Connection	Flange	> 10 (w/w)	Gas/Vapor
AA	VP-CYC/Vapor	2	FL	Cyclone Inlet Connection	Flange	> 10 (w/w)	Gas/Vapor
C	CYC	1	SG	Sight Glass on lower South side	Other connector	> 10 (w/w)	Gas/Vapor

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
AB	CYC-VP/Drain	1	FL	Bottom Outlet of Cyclone	Flange	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	2	FL	on end of welded U-shaped pipe	Flange	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	3	FL	on other end of welded U-shaped pipe	Flange	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	4	FL	on VP	Flange	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	5	FL	on bottom of U-shaped pipe	Flange	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	6	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	7	Bushing	2" x 1"	Other connector	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	8	NIP	3"	Other connector	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	9	45	NW and 45 down	Other connector	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	10	TP	18"	Other connector	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	11	45	down	Other connector	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	12	TP	12"	Other connector	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	13	Coupling		Other connector	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	14	TP	30"	Other connector	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	15	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	16	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	17	Coupling		Other connector	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	18	Camlock	Male	Other connector	> 10 (w/w)	Light Liquid
AB	CYC-VP/Drain	19	Camlock	Female with Hose Barb and Hose	Other connector	> 10 (w/w)	Light Liquid
D	CYC-COND/Vapor	1	FL	From Cyclone	Flange	> 10 (w/w)	Gas/Vapor
D	CYC-COND/Vapor	2	FL	Into Condenser	Flange	> 10 (w/w)	Gas/Vapor
A	COND	1	FL	Top Blind Flange	Flange	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	1	FL	Out	Flange	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	2	Bushing	For sample valve, 1/2" x 1/4" for SV	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	3	SV	Sample Valve	Valve in light liquid service	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	4	NIP	For sample valve, 2" with Stopper	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	5	Bushing	3/4" x 1/2" for TG	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	6	TG	Temperature Guage	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	7	FL	Top to Sight Glass	Flange	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	8	FL	Front of Sight Glass	Flange	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	9	FL	Back of Sight Glass	Flange	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	10	FL	Bottom from Sight Glass	Flange	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	11	FL	Flange on end of welded pipe connecting to S1 &	Flange	> 10 (w/w)	Light Liquid

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
B	COND-SG/Condensate	12	Pipe	2"OD product out of condenser	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	13	90	down-east bottom FLB1	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	14	Pipe	across west-east	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	15	90	east- south	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	16	Pipe	north-south	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	17	90	down	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	18	Pipe	holds TG	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	19	Cross	sight glasses between	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	20	Tee	bottom FL B10	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	21	Pipe	connects S1 and S2	Other connector	> 10 (w/w)	Light Liquid
B	COND-SG/Condensate	22	90	down to S1	Other connector	> 10 (w/w)	Light Liquid
M	S1/Condensate In	1	FL	Into Valve M2	Flange	> 10 (w/w)	Light Liquid
M	S1/Condensate In	2	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
M	S1/Condensate In	3	FL	Condensate Inlet	Flange	> 10 (w/w)	Light Liquid
N	S2/Condensate In	1	FL	Into Valve N2	Flange	> 10 (w/w)	Light Liquid
N	S2/Condensate In	2	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
N	S2/Condensate In	3	FL	Condensate Inlet	Flange	> 10 (w/w)	Light Liquid
P	S1-PF/Vapor	1	FL	Out to Valve P2	Flange	> 10 (w/w)	Gas/Vapor
P	S1-PF/Vapor	2	VALVE		Valve in gas/vapor service	> 10 (w/w)	Gas/Vapor
P	S1-PF/Vapor	3	FL	Connected to Valve P2	Flange	> 10 (w/w)	Gas/Vapor
P	S1-PF/Vapor	4	TP	5"	Other connector	> 10 (w/w)	Gas/Vapor
P	S1-PF/Vapor	5	90		Other connector	> 10 (w/w)	Gas/Vapor
P	S1-PF/Vapor	6	TP	6'	Other connector	> 10 (w/w)	Gas/Vapor
AC	S2-PF/Vapor	1	FL	Out to Valve # 6a	Flange	> 10 (w/w)	Gas/Vapor
AC	S2-PF/Vapor	2	VALVE	# 6a	Valve in gas/vapor service	> 10 (w/w)	Gas/Vapor
AC	S2-PF/Vapor	3	FL	Connected to Valve # 6a	Flange	> 10 (w/w)	Gas/Vapor
AC	S2-PF/Vapor	4	TP	5"	Other connector	> 10 (w/w)	Gas/Vapor
I	PF/Vapor In	1	TEE	Connection from S1 & S2	Other connector	> 10 (w/w)	Gas/Vapor
I	PF/Vapor In	2	TP	16"	Other connector	> 10 (w/w)	Gas/Vapor
I	PF/Vapor In	3	90		Other connector	> 10 (w/w)	Gas/Vapor
I	PF/Vapor In	4	Bushing	2" x 1 1/2"	Other connector	> 10 (w/w)	Gas/Vapor
I	PF/Vapor In	5	TP	18"	Other connector	> 10 (w/w)	Gas/Vapor
I	PF/Vapor In	6	UNION		Other connector	> 10 (w/w)	Gas/Vapor

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
I	PF/Vapor In	7	TP	30"	Other connector	> 10 (w/w)	Gas/Vapor
I	PF/Vapor In	8	90		Other connector	> 10 (w/w)	Gas/Vapor
I	PF/Vapor In	9	Pipe	input to chiller	Other connector	> 10 (w/w)	Gas/Vapor
J	PF-S3/Out	1	90		Other connector	> 10 (w/w)	Light Liquid
J	PF-S3/Out	2	TP	45"	Other connector	> 10 (w/w)	Light Liquid
J	PF-S3/Out	3	Bushing	1 1/2" x 2"	Other connector	> 10 (w/w)	Light Liquid
J	PF-S3/Out	4	UNION		Other connector	> 10 (w/w)	Light Liquid
J	PF-S3/Out	5	TP	24"	Other connector	> 10 (w/w)	Light Liquid
J	PF-S3/Out	6	90		Other connector	> 10 (w/w)	Light Liquid
J	PF-S3/Out	7	TP	5"	Other connector	> 10 (w/w)	Light Liquid
J	PF-S3/Out	8	90		Other connector	> 10 (w/w)	Light Liquid
J	PF-S3/Out	9	NIP	3"	Other connector	> 10 (w/w)	Light Liquid
J	PF-S3/Out	10	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
J	PF-S3/Out	11	Pipe	Top of Separator	Other connector	> 10 (w/w)	Light Liquid
J	PF-S3/Out	12	Pipe	from chiller to 90	Other connector	> 10 (w/w)	Light Liquid
AD	S3-VAC/Vacuum	1	Pipe	Top of Separator	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	2	FL	Threaded	Flange	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	3	NIP	3"	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	4	90		Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	5	TP	5"	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	6	90		Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	7	TP	12"	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	8	90	to east	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	9	TP	16"	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	10	FL	Threaded	Flange	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	12	TP	5'	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	13	45		Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	14	NIP	2"	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	15	45		Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	16	TP	15'	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	17	90	east-north	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	18	TP	15"	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	19	90	down	Other connector	> 10 (w/w)	Gas/Vapor

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
AD	S3-VAC/Vacuum	20	TP	4'	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	21	UNION		Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	22	CV	Check Valve to PG	Valve in gas/vapor service	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	23	Pipe	3"L	Other connector	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	24	FL	to vacuum pump	Flange	> 10 (w/w)	Gas/Vapor
AD	S3-VAC/Vacuum	25	PG	threaded	Other connector	> 10 (w/w)	Gas/Vapor
AE	S3/Vent	1	NIP	4"	Other connector	> 10 (w/w)	Gas/Vapor
AE	S3/Vent	2	VALVE	# 10a	Valve in gas/vapor service	> 10 (w/w)	Gas/Vapor
AE	S3/Vent	3	Coupling	Top of S3	Other connector	> 10 (w/w)	Gas/Vapor
AE	S3/Vent	4	Plug	Threaded	Other connector	> 10 (w/w)	Gas/Vapor
AF	S3/SG	1	VALVE	Top of Sight Glass	Valve in light liquid service	> 10 (w/w)	Light Liquid
AF	S3/SG	2	VALVE	Bottom of Sight Glass	Valve in light liquid service	> 10 (w/w)	Light Liquid
AF	S3/SG	3	SV	Sample Valve	Open-ended valve or line	> 10 (w/w)	Light Liquid
AF	S3/SG	4	Plug	to sampling valve	Other connector	> 10 (w/w)	Light Liquid
AF	S3/SG	5	Coupling	Top of SG	Other connector	> 10 (w/w)	Light Liquid
AF	S3/SG	6	Coupling	Bottom of SG	Other connector	> 10 (w/w)	Light Liquid
AF	S3/SG	7	SG	Sight Glass on lower South sid	Other connector	> 10 (w/w)	Light Liquid
AG	S3/Bottom	1	Pipe	Bottom S3	Other connector	> 10 (w/w)	Light Liquid
AG	S3/Bottom	2	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
AG	S3/Bottom	3	NIP	3"	Other connector	> 10 (w/w)	Light Liquid
AG	S3/Bottom	4	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
AG	S3/Bottom	5	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
AG	S3/Bottom	6	90		Other connector	> 10 (w/w)	Light Liquid
AG	S3/Bottom	7	CAM	Male Thread to Male Camlock	Other connector	> 10 (w/w)	Light Liquid
AG	S3/Bottom	8	CAP	Camlock	Other connector	> 10 (w/w)	Light Liquid
K	S1	1	Bushing	1" x 1/4" for VPG	Other connector	> 10 (w/w)	Light Liquid
K	S1	2	VPG	Vacuum Pressure Guage	Other connector	> 10 (w/w)	Light Liquid
K	S1	3	FL	Top Blind Flange	Flange	> 10 (w/w)	Light Liquid
K	S1	4	LT	High High Level Transmitter on SW	Other connector	> 10 (w/w)	Light Liquid
K	S1	5	LT	High Level Transmitter on SW	Other connector	> 10 (w/w)	Light Liquid
K	S1	6	CAP	Side Plug just below platform on East Side	Other connector	> 10 (w/w)	Light Liquid
K	S1	7	CAP	Side Plug about 4' from bottom on SE	Other connector	> 10 (w/w)	Light Liquid
K	S1	8	CAP	Side Plug about 1.5' from bottom on SE	Other connector	> 10 (w/w)	Light Liquid

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
K	S1	9	CAP	Bottom Side Plug on East Side	Other connector	> 10 (w/w)	Light Liquid
K	S1	10	TP	on NW side 3' from bottom for SQRF	Other connector	> 10 (w/w)	Light Liquid
K	S1	11	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
K	S1	12	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
K	S1	13	90		Other connector	> 10 (w/w)	Light Liquid
K	S1	14	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
K	S1	15	SQRF		Open-ended valve or line	> 10 (w/w)	Light Liquid
K	S1	16	CAP	Bottom West Side Blind Flange	Other connector	> 10 (w/w)	Light Liquid
K	S1	17	LT	Low Level Transmitter on SW	Other connector	> 10 (w/w)	Light Liquid
N	S1/SG	1	CAP	Plug @ Top of Sight Glass	Other connector	> 10 (w/w)	Light Liquid
N	S1/SG	2	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
N	S1/SG	3	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
N	S1/SG	4	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
N	S1/SG	5	FL		Flange	> 10 (w/w)	Light Liquid
N	S1/SG	7	TP	Top of Sight Glass	Other connector	> 10 (w/w)	Light Liquid
N	S1/SG	8	TP	Bottom of Sight Glass	Other connector	> 10 (w/w)	Light Liquid
N	S1/SG	9	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
N	S1/SG	10	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
N	S1/SG	11	FL	Bottom of Sight Glass	Flange	> 10 (w/w)	Light Liquid
N	S1/SG	12	FL	Threaded onto S1	Flange	> 10 (w/w)	Light Liquid
N	S1/SG	13	SV	Sample Valve @ Bottom of Sight Glass	Valve	> 10 (w/w)	Light Liquid
O	S1/Vent	1	FL	Out to Valve	Flange	> 10 (w/w)	Gas/Vapor
O	S1/Vent	2	VALVE		Valve in gas/vapor service	> 10 (w/w)	Gas/Vapor
O	S1/Vent	3	FL	Outlet Vent	Flange	> 10 (w/w)	Gas/Vapor
O	S1/Vent	4	Pipe	Vent assembly that vents out to atmosphere	Other connector		Gas/Vapor
Q	S2	1	Bushing	1" x 1/4" for VPG	Other connector	> 10 (w/w)	Light Liquid
Q	S2	2	VPG	Vacuum Pressure Guage	Other connector	> 10 (w/w)	Light Liquid
Q	S2	3	CAP	Top Blind Flange	Flange	> 10 (w/w)	Light Liquid
Q	S2	4	LT	High High Level Transmitter on NW	Other connector	> 10 (w/w)	Light Liquid
Q	S2	5	LT	High Level Transmitter on NW	Other connector	> 10 (w/w)	Light Liquid
Q	S2	6	CAP	Side Plug just below platform on East Side	Other connector	> 10 (w/w)	Light Liquid
Q	S2	7	CAP	Side Plug about 4' from bottom on SE	Other connector	> 10 (w/w)	Light Liquid
Q	S2	8	CAP	Side Plug about 1.5' from bottom on SE	Other connector	> 10 (w/w)	Light Liquid

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
Q	S2	9	CAP	Bottom Side Plug on East Side	Other connector	> 10 (w/w)	Light Liquid
Q	S2	10	TP	on W side 3' from bottom for SQRF	Other connector	> 10 (w/w)	Light Liquid
Q	S2	11	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
Q	S2	12	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
Q	S2	13	90		Other connector	> 10 (w/w)	Light Liquid
Q	S2	14	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
Q	S2	15	SQRF		Other connector	> 10 (w/w)	Light Liquid
Q	S2	16	CAP	Bottom West Side Blind Flange	Flange	> 10 (w/w)	Light Liquid
Q	S2	17	LT	Low Level Transmitter on NW	Other connector	> 10 (w/w)	Light Liquid
AH	S2/SG	1	CAP	Plug @ Top of Sight Glass	Other connector	> 10 (w/w)	Light Liquid
AH	S2/SG	2	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
AH	S2/SG	3	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
AH	S2/SG	4	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
AH	S2/SG	5	FL		Flange	> 10 (w/w)	Light Liquid
AH	S2/SG	6	FL		Flange	> 10 (w/w)	Light Liquid
AH	S2/SG	7	TP	Top of Sight Glass	Other connector	> 10 (w/w)	Light Liquid
AH	S2/SG	8	TP	Bottom of Sight Glass	Other connector	> 10 (w/w)	Light Liquid
AH	S2/SG	9	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
AH	S2/SG	10	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
AH	S2/SG	11	FL	Bottom of Sight Glass	Flange	> 10 (w/w)	Light Liquid
AH	S2/SG	12	FL	Threaded onto S2	Flange	> 10 (w/w)	Light Liquid
AH	S2/SG	13	SV	Sample Valve @ Bottom of Sight Glass	Valve	> 10 (w/w)	Light Liquid
AI	S2/Vent	1	FL	Out to Valve # 6b	Flange	> 10 (w/w)	Gas/Vapor
AI	S2/Vent	2	VALVE	# 6b	Valve in gas/vapor service	> 10 (w/w)	Gas/Vapor
AI	S2/Vent	3	FL	Outlet Vent	Flange	> 10 (w/w)	Gas/Vapor
AI	S2/Vent	4	Pipe	Vent assembly that vents out to atmosphere	Other connector	> 10 (w/w)	Gas/Vapor
L	S1/Bottom	1	Pipe	Bottom S1	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	2	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
L	S1/Bottom	3	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	4	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
L	S1/Bottom	5	Bushing	2" x 1"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	6	NIP	4"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	7	90	west	Other connector	> 10 (w/w)	Light Liquid

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
L	S1/Bottom	8	TP	3'	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	9	90	south	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	10	NIP	3'	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	11	45	up 45	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	12	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	13	45	south	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	14	TP	2'	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	15	UNION		Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	16	NIP	3"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	17	90	east	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	18	TP	18"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	19	Tee		Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	20	NIP	5" north from side of tee (# 19)	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	21	UNION		Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	22	NIP	3"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	23	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
L	S1/Bottom	24	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	25	Tee		Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	26	Bushing	1" x 1/2" west from tee (# 25)	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	27	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	28	VALVE		Open-ended valve or line	> 10 (w/w)	Light Liquid
L	S1/Bottom	29	Bushing	Bushing 1/2" x 3/8"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	30	AF		Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	31	NIP	1" north from tee (# 25)	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	32	Reducer	1" x 3/4"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	33	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
L	S1/Bottom	34	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
L	S1/Bottom	35	PUMP	Flanged Pump	Pump in light liquid service	> 10 (w/w)	Light Liquid
R	S2/Bottom	1	Pipe	Bottom Outlet	Other connector	> 10 (w/w)	Light Liquid
R	S2/Bottom	2	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
R	S2/Bottom	3	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
R	S2/Bottom	4	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
R	S2/Bottom	5	Bushing	2" x 1"	Other connector	> 10 (w/w)	Light Liquid

Vacuum Pot Inspection

	Vacuum Pot			Date monitored: 02 September 04	Stoddard Solvent	PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
R	S2/Bottom	6	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
R	S2/Bottom	7	90	south	Other connector	> 10 (w/w)	Light Liquid
R	S2/Bottom	8	NIP	2"	Other connector	> 10 (w/w)	Light Liquid
R	S2/Bottom	9	UNION		Other connector	> 10 (w/w)	Light Liquid
R	S2/Bottom	10	NIP	4"	Other connector	> 10 (w/w)	Light Liquid
R	S2/Bottom	11	Tee		Other connector	> 10 (w/w)	Light Liquid
R	S2/Bottom	12	TP	16" west from Tee (# 11) into Tee (# 19 S1/Bottom)	Other connector	> 10 (w/w)	Light Liquid
R	S2/Bottom	13	NIP	3" east from Tee (# 11)	Other connector	> 10 (w/w)	Light Liquid
R	S2/Bottom	14	VALVE		Valve in light liquid service	> 10 (w/w)	Light Liquid
R	S2/Bottom	15	TP	TP 6"	Other connector	> 10 (w/w)	Light Liquid
R	S2/Bottom	16	CAM	Camlock with Cap	Other connector	> 10 (w/w)	Light Liquid
AJ	Product Line	1	FL	Threaded	Flange	> 10 (w/w)	Light Liquid
AJ	Product Line	2	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
AJ	Product Line	3	Reducer	3/4" x 1"	Other connector	> 10 (w/w)	Light Liquid
AJ	Product Line	4	NIP	1"	Other connector	> 10 (w/w)	Light Liquid
AJ	Product Line	5	Tee	North to connections to side of West Trough, Top of Tank 121, and in front of Product Tank Farm Trough and West to West Trough	Other connector	> 10 (w/w)	Light Liquid
	** Temp of 108 affected the FID.						

Vacuum Pot Inspection

: 9.3-16.4 ppm**					
Compliance Method	PID Reading	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					

Vacuum Pot Inspection

: 9.3-16.4 ppm**					
Compliance Method	PID Reading	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					

Vacuum Pot Inspection

: 9.3-16.4 ppm**					
Compliance Method	PID Reading	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Second valve or cap					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					

Vacuum Pot Inspection

: 9.3-16.4 ppm**					
Compliance Method	PID Reading	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					

Vacuum Pot Inspection

: 9.3-16.4 ppm**					
Compliance Method	PID Reading	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Second valve or cap					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					

Transfer Lines

	Xfer lines	SS Round		Date monitored: 02 Sep 04		PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
A	T101	1	FL	Bottom of T101	Flange	> 10 (w/w)	Light Liquid
A	T101	2	FL	On valve #A3	Flange	> 10 (w/w)	Light Liquid
A	T101	3	Valve	Bottom of T101	Valve in light liquid service	> 10 (w/w)	Light Liquid
A	T101	4	FL	Bottom of valve #A3	Flange	> 10 (w/w)	Light Liquid
A	T101	5	Multi	4", 3" and 2" piping from bottom of T101 to East Trough	Other connector	> 10 (w/w)	Light Liquid
A	T101	6	FL	End flange east side	Flange	> 10 (w/w)	Light Liquid
A	T101	7	FL	North of valve #A8	Flange	> 10 (w/w)	Light Liquid
A	T101	8	Valve	To East Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
A	T101	9	FL	South of valve #A8	Flange	> 10 (w/w)	Light Liquid
A	T101	10	FL	East Trough	Flange	> 10 (w/w)	Light Liquid
A	T101	11	Camlock	East Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
B	T102	1	FL	Bottom of T102	Flange	> 10 (w/w)	Light Liquid
B	T102	2	FL	On valve #B3	Flange	> 10 (w/w)	Light Liquid
B	T102	3	Valve	Bottom of T102	Valve in light liquid service	> 10 (w/w)	Light Liquid
B	T102	4	FL	Bottom of valve #B3	Flange	> 10 (w/w)	Light Liquid
B	T102	5	Multi	4" and 3" piping from bottom of T102 to East Trough	Other connector	> 10 (w/w)	Light Liquid
B	T102	6	FL	End flange east side	Flange	> 10 (w/w)	Light Liquid
B	T102	7	FL	Noth of valve #B8	Flange	> 10 (w/w)	Light Liquid
B	T102	8	Valve		Valve in light liquid service	> 10 (w/w)	Light Liquid
B	T102	9	FL	on valve #B8	Flange	> 10 (w/w)	Light Liquid
B	T102	10	FL	to East Trough, south of valve #B8	Flange	> 10 (w/w)	Light Liquid
B	T102	11	FL	East Trough	Flange	> 10 (w/w)	Light Liquid
B	T102	12	Camlock	East Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
C	T103	1	FL	Bottom of T103	Flange	> 10 (w/w)	Light Liquid
C	T103	2	Valve	Bottom of T103	Valve in light liquid service	> 10 (w/w)	Light Liquid
C	T103	3	FL	Bottom of T103	Flange	> 10 (w/w)	Light Liquid
C	T103	4	Multi	Reducer, tee, pipe	Other connector	> 10 (w/w)	Light Liquid
C	T103	5	FL	west of tee	Flange	> 10 (w/w)	Light Liquid
C	T103	6	Multi	Piping from FL #C5 to East Trough (pipe, elbow, etc.)	Other connector	> 10 (w/w)	Light Liquid
C	T103	7	FL	to East Trough	Flange	> 10 (w/w)	Light Liquid
C	T103	8	FL	East Trough	Flange	> 10 (w/w)	Light Liquid
C	T103	9	Valve	East Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
C	T103	10	FL	East Trough	Flange	> 10 (w/w)	Light Liquid
C	T103	11	Camlock	East Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
C	T103	12	FL	west of valve #C13	Flange	> 10 (w/w)	Light Liquid
C	T103	13	Valve		Valve in light liquid service	> 10 (w/w)	Light Liquid
C	T103	14	FL	east of valve #C13	Flange	> 10 (w/w)	Light Liquid

Transfer Lines

	Xfer lines	SS Round		Date monitored: 02 Sep 04		PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
C	T103	15	Multi	reducer, pipe, elbow	Other connector	> 10 (w/w)	Light Liquid
C	T103	16	FL	east side T103	Flange	> 10 (w/w)	Light Liquid
C	T103	17	Multi	east side bottom of cone on T103	Other connector	> 10 (w/w)	Light Liquid
C	T103	18	Valve		Valve in light liquid service	> 10 (w/w)	Light Liquid
C	T103	19	Camlock		Open-ended valve or line	> 10 (w/w)	Light Liquid
D	T104	1	FL	Bottom of T104	Flange	> 10 (w/w)	Light Liquid
D	T104	2	Valve	Bottom of T104	Valve in light liquid service	> 10 (w/w)	Light Liquid
D	T104	3	FL	Bottom of T104	Flange	> 10 (w/w)	Light Liquid
D	T104	4	Multi	reducer, tee, pipe	Other connector	> 10 (w/w)	Light Liquid
D	T104	5	FL	west side of tee	Flange	> 10 (w/w)	Light Liquid
D	T104	6	Multi	pipe from FL #d5 to East Trough	Other connector	> 10 (w/w)	Light Liquid
D	T104	7	FL	to East Trough	Flange	> 10 (w/w)	Light Liquid
D	T104	8	FL	East Trough	Flange	> 10 (w/w)	Light Liquid
D	T104	9	Valve	East Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
D	T104	10	FL	East Trough	Flange	> 10 (w/w)	Light Liquid
D	T104	11	Camlock	East Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
D	T104	12	FL	west of valve #D13	Flange	> 10 (w/w)	Light Liquid
D	T104	13	Valve		Valve in light liquid service	> 10 (w/w)	Light Liquid
D	T104	14	FL	east of valve #D13	Flange	> 10 (w/w)	Light Liquid
D	T104	15	Multi	pipe, elbow,	Other connector	> 10 (w/w)	Light Liquid
D	T104	16	FL	to east side of tank T104	Flange	> 10 (w/w)	Light Liquid
D	T104	17	Valve	east side bottom of cone on T104	Valve in light liquid service	> 10 (w/w)	Light Liquid
D	T104	18	Multi	elbow, pipe, coupling, camlock	Other connector	> 10 (w/w)	Light Liquid
E	T105	1	FL	Bottom of T105	Flange	> 10 (w/w)	Light Liquid
E	T105	2	Valve	Bottom of T105	Valve in light liquid service	> 10 (w/w)	Light Liquid
E	T105	3	FL	Bottom of T105	Flange	> 10 (w/w)	Light Liquid
E	T105	4	Multi	elbow, pipe	Other connector	> 10 (w/w)	Light Liquid
E	T105	5	FL	south of line	Flange	> 10 (w/w)	Light Liquid
E	T105	6	Multi	from FL #E5 to East Trough	Other connector	> 10 (w/w)	Light Liquid
E	T105	7	FL	to East Trough	Flange	> 10 (w/w)	Light Liquid
E	T105	8	FL	East Trough	Flange	> 10 (w/w)	Light Liquid
E	T105	9	Valve	East Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
E	T105	10	FL	East Trough	Flange	> 10 (w/w)	Light Liquid
E	T105	11	Camlock	East Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
F	T112	1	FL	southeast T112	Flange	> 10 (w/w)	Light Liquid
F	T112	2	Valve	southeast T112	Valve in light liquid service	> 10 (w/w)	Light Liquid
F	T112	3	Multi	2" line southeast of T112 to East Trough	Other connector	> 10 (w/w)	Light Liquid

Transfer Lines

	Xfer lines	SS Round		Date monitored: 02 Sep 04		PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
F	T112	4	Valve	East Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
F	T112	5	Camlock	East Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
F	T112	6	Multi	piping from southwest bottom T112 to West Trough	Other connector	> 10 (w/w)	Light Liquid
F	T112	7	FL	Bottom of T112	Flange	> 10 (w/w)	Light Liquid
F	T112	8	Valve	Bottom of T113	Valve in light liquid service	> 10 (w/w)	Light Liquid
F	T112	9	Valve	West Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
F	T112	10	Camlock	West Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
G	Open End T104-T102	1	Multi	2" piping with one end close to T104 and other end close to T	Other connector	> 10 (w/w)	Light Liquid
H	Open End East Trough-West Trough	1	Multi	2" piping	Other connector	> 10 (w/w)	Light Liquid
H	Open End East Trough-West Trough	2	Valve	East Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
H	Open End East Trough-West Trough	3	Camlock	East Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
H	Open End East Trough-West Trough	4	Valve	West Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
H	Open End East Trough-West Trough	5	Camlock	West Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
I	Open End West Trough-TFE-DC	1	Multi	2" piping from DC (north wall) to West Trough	Other connector	> 10 (w/w)	Light Liquid
I	Open End West Trough-TFE-DC	2	Valve	DC area north wall	Valve in light liquid service	> 10 (w/w)	Light Liquid
I	Open End West Trough-TFE-DC	3	Camlock	DC area north wall	Open-ended valve or line	> 10 (w/w)	Light Liquid
I	Open End West Trough-TFE-DC	4	Valve	Area bottom of TFE	Valve in light liquid service	> 10 (w/w)	Light Liquid
I	Open End West Trough-TFE-DC	5	Multi	Area bottom of TFE, camlock, coupling, up to tee	Other connector	> 10 (w/w)	Light Liquid
I	Open End West Trough-TFE-DC	6	Multi	2" piping from tee to West Trough	Other connector	> 10 (w/w)	Light Liquid
I	Open End West Trough-TFE-DC	7	Valve	West Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
I	Open End West Trough-TFE-DC	8	Camlock	West Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	1	Multi	2" piping from VP top inlet FL to Tank Farm C1	Other connector	> 10 (w/w)	Light Liquid

Transfer Lines

	Xfer lines	SS Round		Date monitored: 02 Sep 04		PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	2	Multi	2" piping from VP bottom inlet tee to West Trough tee	Other connector	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	3	Valve	West Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	4	Multi	West Trough (elbow, camlock, etc.)	Other connector	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	5	Multi	from West Trough tee to East Trough valve	Other connector	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	6	Valve	East Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	7	Multi	East Trough (elbow, camlock, etc.)	Other connector	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	8	Valve	South side Tank Farm C1, 3way valve	Valve in light liquid service	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	9	Multi	2" piping from 3way valve to T124 line	Other connector	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	10	Filter	2" piping from 3way valve to filter, to air pump on north side of Tank Farm C1	Other connector	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	11	FL	Top of Pump	Flange	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	12	Pump	north side of Tank Farm C1	Pump in light liquid service	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	13	Valve	from tee, north side of Tank Farm C1	Valve in light liquid service	> 10 (w/w)	Light Liquid
J	Vacpot feed-East Trough-West Trough-Tank Farm C1	14	Multi	piping from valve #J13 (elbow, pipe, camlock)	Other connector	> 10 (w/w)	Light Liquid
K	East Trough-Tank Farm C2 Trough	1	Multi	East Trough	Other connector	> 10 (w/w)	Light Liquid
K	East Trough-Tank Farm C2 Trough	2	Valve	East Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
K	East Trough-Tank Farm C2 Trough	3	Multi	2" piping from East Trough to Tank Farm C2 Trough	Other connector	> 10 (w/w)	Light Liquid
K	East Trough-Tank Farm C2 Trough	4	Valve	Tank Farm C2 Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
K	East Trough-Tank Farm C2 Trough	5	Camlock	Tank Farm C2 Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid

Transfer Lines

	Xfer lines	SS Round		Date monitored: 02 Sep 04		PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
L	East Trough-T113	1	Valve	East Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
L	East Trough-T113	2	Camlock	East Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
L	East Trough-T113	3	Multi	2" piping from East Trough to T113	Other connector	> 10 (w/w)	Light Liquid
L	East Trough-T113	4	Valve	southeast of T113	Valve in light liquid service	> 10 (w/w)	Light Liquid
L	East Trough-T113	5	FL	southeast of T113		> 10 (w/w)	Light Liquid
L	East Trough-T113	6	Multi	2" piping from tee south of T121	Other connector	> 10 (w/w)	Light Liquid
L	East Trough-T113	7	Valve	Tank Farm C2 Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
L	East Trough-T113	8	Multi	Tank Farm C2 Trough	Other connector	> 10 (w/w)	Light Liquid
M	East Trough-Tank Farm C2 Trough	1	Valve	East Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
M	East Trough--Tank Farm C1-Tank Farm C2 Trough	2	Camlock	East Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
M	East Trough--Tank Farm C1-Tank Farm C2 Trough	3	Multi	2" piping from East Trough to Tank Farm C2 Trough	Other connector	> 10 (w/w)	Light Liquid
M	East Trough--Tank Farm C1-Tank Farm C2 Trough	4	Valve	Tank Farm C1 southwest wall	Valve in light liquid service	> 10 (w/w)	Light Liquid
M	East Trough--Tank Farm C1-Tank Farm C2 Trough	5	Valve	Tank Farm C2 Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
M	East Trough--Tank Farm C1-Tank Farm C2 Trough	6	Multi	Tank Farm C2 Trough	Other connector	> 10 (w/w)	Light Liquid
N	Tank Farm C2 Trough-Tank Farm C4	1	Valve	Tank Farm C2 Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
N	Tank Farm C2 Trough-Tank Farm C4	2	Camlock	Tank Farm C2 Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
N	Tank Farm C2 Trough-Tank Farm C4	3	Multi	2" piping from Tank Farm C2 Trough to east Tank Farm C4	Other connector	> 10 (w/w)	Light Liquid
N	Tank Farm C2 Trough-Tank Farm C4	4	Valve	Tank Farm C4 east	Valve in light liquid service	> 10 (w/w)	Light Liquid
N	Tank Farm C2 Trough-Tank Farm C4	5	Camlock	Tank Farm C4 east	Open-ended valve or line	> 10 (w/w)	Light Liquid
O	Portable Pump	1	Pump	Portable pump with filter		> 10 (w/w)	Light Liquid
P	Portable Pump	1	Pump	Portable pump with filter		> 10 (w/w)	Light Liquid
Q	Portable Pump	1	Pump	Portable pump with filter		> 10 (w/w)	Light Liquid
R	Filter	1	Filter	Filter system between T201 and T202	Other connector	> 10 (w/w)	Light Liquid
S	T121	1	FL	northeast side bottom T121	Flange	> 10 (w/w)	Light Liquid
S	T121	2	Valve	northeast side bottom T121	Valve in light liquid service	> 10 (w/w)	Light Liquid
S	T121	3	Multi	2" piping	Other connector	> 10 (w/w)	Light Liquid

Transfer Lines

	Xfer lines	SS Round		Date monitored: 02 Sep 04		PID background reading	
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics	HW State
S	T121	4	Valve	northeast side T121	Valve in light liquid service	> 10 (w/w)	Light Liquid
S	T121	5	Camlock	northeast side T121	Open-ended valve or line	> 10 (w/w)	Light Liquid
S	T121	6	Valve	east T121	Valve in light liquid service	> 10 (w/w)	Light Liquid
S	T121	7	Camlock	east T121	Open-ended valve or line	> 10 (w/w)	Light Liquid
T	T122	1	FL	northeast side bottom T122	Flange	> 10 (w/w)	Light Liquid
T	T122	2	Valve	northeast side bottom T122	Valve in light liquid service	> 10 (w/w)	Light Liquid
T	T122	3	Multi	2" piping	Other connector	> 10 (w/w)	Light Liquid
T	T122	4	Valve	northeast side T122	Valve in light liquid service	> 10 (w/w)	Light Liquid
T	T122	5	Camlock	northeast side T122	Open-ended valve or line	> 10 (w/w)	Light Liquid
T	T122	6	Valve	east T121	Valve in light liquid service	> 10 (w/w)	Light Liquid
T	T122	7	Camlock	east T121	Open-ended valve or line	> 10 (w/w)	Light Liquid
U	T123	1	FL	northwest side bottom T123	Flange	> 10 (w/w)	Light Liquid
U	T123	2	Valve	northwest side bottom T123	Valve in light liquid service	> 10 (w/w)	Light Liquid
U	T123	3	Multi			> 10 (w/w)	Light Liquid
U	T123	4	Valve	northwest side T123	Valve in light liquid service	> 10 (w/w)	Light Liquid
U	T123	5	Camlock	northwest side T123	Open-ended valve or line	> 10 (w/w)	Light Liquid
U	T123	6	Valve	west T123	Valve in light liquid service	> 10 (w/w)	Light Liquid
U	T123	7	Camlock	west T123	Open-ended valve or line	> 10 (w/w)	Light Liquid
V	T124	1	FL	northwest side bottom T124	Flange	> 10 (w/w)	Light Liquid
V	T124	2	Valve	northwest side bottom T124	Valve in light liquid service	> 10 (w/w)	Light Liquid
V	T124	3	Multi	2" piping from valve #V2 to outlet (north wall Tank Farm C1)	Other connector	> 10 (w/w)	Light Liquid
V	T124	4	Valve	3way valve T124 - Vacpot - Pump	Valve in light liquid service	> 10 (w/w)	Light Liquid
V	T124	5	Valve	north wall Tank Farm C1	Valve in light liquid service	> 10 (w/w)	Light Liquid
V	T124	6	Camlock	north wall Tank Farm C1	Open-ended valve or line	> 10 (w/w)	Light Liquid
W	T113	1	Valve	3" gate valve north of T113	Valve in light liquid service	> 10 (w/w)	Light Liquid
W	T113	2	Valve	2" gate valve north of T113	Valve in light liquid service	> 10 (w/w)	Light Liquid
W	T113	3	FL	north of T113	Flange	> 10 (w/w)	Light Liquid
W	T113	4	Camlock	north of T114	Open-ended valve or line	> 10 (w/w)	Light Liquid
W	T113	5	Multi	piping from T113 north to east side of T113	Other connector	> 10 (w/w)	Light Liquid
X	Tank Farm C2 Trough-Tank Farm C1 NE corner	1	Multi	2" piping from Tank Farm C2 Trough to Tank Farm C1 northeast corner	Other connector	> 10 (w/w)	Light Liquid
X	Tank Farm C2 Trough-Tank Farm C1 NE corner	2	Valve	Tank Farm C2 Trough	Valve in light liquid service	> 10 (w/w)	Light Liquid
X	Tank Farm C2 Trough-Tank Farm C1 NE corner	3	Camlock	Tank Farm C2 Trough	Open-ended valve or line	> 10 (w/w)	Light Liquid
X	Tank Farm C2 Trough-Tank Farm C1 NE corner	4	Valve	Tank Farm C1 NE corner	Valve in light liquid service	> 10 (w/w)	Light Liquid

Transfer Lines

: 9.3-16.9ppm		Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Compliance Method	PID Reading				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Second valve or cap					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					

Transfer Lines

: 9.3-16.9ppm		Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Compliance Method	PID Reading				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					

Transfer Lines

: 9.3-16.9ppm		Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Compliance Method	PID Reading				
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					

Transfer Lines

: 9.3-16.9ppm					
Compliance Method	PID Reading	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Monitor if evidence of leak					
Monthly LDAR					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR				23-Jun-04	Y
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					

Transfer Lines

: 9.3-16.9ppm		Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Compliance Method	PID Reading				
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monthly LDAR	BG				
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap	BG				
Monthly LDAR	BG				
Monthly LDAR	BG				
Monthly LDAR	BG				
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					

Transfer Lines

: 9.3-16.9ppm		Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Compliance Method	PID Reading				
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR					
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak	BG				
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monthly LDAR	BG				
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR					
Monthly LDAR	BG				
Monitor if evidence of leak					
Second valve or cap					
Monitor if evidence of leak					
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR	BG				

Transfer Lines

: 9.3-16.9ppm					
Compliance Method	PID Reading	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
Second valve or cap					
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR	BG				
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR	BG				
Monthly LDAR	BG				
Second valve or cap					
Monthly LDAR	BG				
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Monthly LDAR	BG				
Second valve or cap					
Monitor if evidence of leak					
Monthly LDAR	BG				
Second valve or cap					

Transfer Lines

: 9.3-16.9ppm					
Compliance Method	PID Reading	Leak? Y/N	Work Order #	Retest Date	Leak Fixed?
	green = no leaks red = leak detected				

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
B	S1	1	Flanged Tee	Vent top of S1	Other connector	> 10 (w/w)
B	S1	2	PRV	Vent top of S1,Top of Tee B1	Pressure relief devices	> 10 (w/w)
B	S1	3	Air Valve	Vent top of S1, north side of Tee B1	Valve in gas/vapor service	> 10 (w/w)
B	S1	32	Pipe	Vent top of S1, 3"OD	Other connector	> 10 (w/w)
B	S1	33	FL	Vent top of S1, bottom of tee B1	Flange	> 10 (w/w)
B	S1	34	FL	Vent top of S1, top of tee B1	Flange	> 10 (w/w)
B	S1	35	FL	Vent top of S1, north of Tee B1	Flange	> 10 (w/w)
B	S1	36	FL	Vent top of S1, air valve	Flange	> 10 (w/w)
B	S1	4	Coupling	Top outlet for PT	Other connector	> 10 (w/w)
B	S1	5	Bushing	Top outlet for PT,1" x 3/4"	Other connector	> 10 (w/w)
B	S1	6	Bushing	Top outlet for PT, 3/4" x 1/4"	Other connector	> 10 (w/w)
B	S1	7	90	Top outlet for PT	Other connector	> 10 (w/w)
B	S1	8	1/4 SS Line	Top outlet for PT	Other connector	> 10 (w/w)
B	S1	9	PT	Top outlet for PT	Other connector	> 10 (w/w)
B	S1	10	FL	Top of Level Transmitter, west side S1	Flange	> 10 (w/w)
B	S1	11	FL	Bottom of Level Transmitter, west side S1	Flange	> 10 (w/w)
B	S1	39	Coupling	Top of Level Transmitter, west side S1	Other connector	> 10 (w/w)
B	S1	40	NIP	Top of Level Transmitter, west side S1	Other connector	> 10 (w/w)
B	S1	41	Pipe	Bottom of Level Transmitter, west side S1, 3.5"L	Other connector	> 10 (w/w)
B	S1	12	Coupling	for TT, west side S1	Other connector	> 10 (w/w)
B	S1	13	TT	Temperature Transmitter, , west side S1	Other connector	> 10 (w/w)
B	S2	37	Bushing	for TT, west side S1	Other connector	> 10 (w/w)
B	S3	38	NIP	for TT, west side S1	Other connector	> 10 (w/w)
B	S1	14	Coupling	for P-gage, east side S1	Other connector	> 10 (w/w)
B	S1	15	Bushing	for P-gage, east side S1, 3/4" x 1/4"	Other connector	> 10 (w/w)
B	S1	16	NIP	for P-gage, east side S1, 1"	Other connector	> 10 (w/w)
B	S1	17	90	for P-gage, east side S1	Other connector	> 10 (w/w)
B	S1	18	NIP	for P-gage, east side S1, 2"	Other connector	> 10 (w/w)
B	S1	19	90	for P-gage, east side S1	Other connector	> 10 (w/w)
B	S1	20	NIP	for P-gage, east side S1	Other connector	> 10 (w/w)
B	S1	21	VALVE	for P-gage, east side S1	Valve in gas/vapor service	> 10 (w/w)
B	S1	22	PG	for P-gage, east side S1	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
B	S1	23	VALVE	Top of SG, north side S1	Valve in gas/vapor service	> 10 (w/w)
B	S1	24	VALVE	Bottom of SG, north side S1	Valve in gas/vapor service	> 10 (w/w)
B	S1	25	Plug	Bottom of Bottom Valve of SG	Other connector	> 10 (w/w)
B	S1	42	Coupling	Top of SG, north side S1	Other connector	> 10 (w/w)
B	S1	43	Coupling	Bottom of SG, north side S1	Other connector	> 10 (w/w)
B	S1	44	LG	level gage/sight glass	Other connector	> 10 (w/w)
B	S1	26	Coupling	Outlet NW side S1 for Valve B28	Other connector	> 10 (w/w)
B	S1	27	NIP	Outlet NW side S1 for Valve B28, 1"	Other connector	> 10 (w/w)
B	S1	28	VALVE	Outlet NW side S1	Valve in gas/vapor service	> 10 (w/w)
B	S1	29	Bushing	Outlet NW side S1 for Valve B28, 1/2" x 3/8"	Other connector	> 10 (w/w)
B	S1	30	3/8" Hose Barb	Outlet NW side S1 for Valve B28	Open-ended valve or line	> 10 (w/w)
B	S1	31	Plastic Tubing	Outlet NW side S1 for Valve B28	Other connector	> 10 (w/w)
C	S1 to Compressors	1	FL	Top Outlet from S1	Flange	> 10 (w/w)
C	S1 to Compressors	2	Pipe	3"OD on top of S1	Other connector	> 10 (w/w)
C	S1 to Compressors	3	90	on FL C2 on S1	Other connector	> 10 (w/w)
C	S1 to Compressors	4	Pipe	3"OD, 35"L	Other connector	> 10 (w/w)
C	S1 to Compressors	5	90	down	Other connector	> 10 (w/w)
C	S1 to Compressors	6	reducer	3" to 2" down	Other connector	> 10 (w/w)
C	S1 to Compressors	7	Tee		Other connector	> 10 (w/w)
C	S1 to Compressors	8	Pipe	down to Compressor A	Other connector	> 10 (w/w)
C	S1 to Compressors	9	90	to Compressor A	Other connector	> 10 (w/w)
C	S1 to Compressors	10	FL	north of valve D1	Flange	> 10 (w/w)
C	S1 to Compressors	11	Pipe	north-south to Compressor B, 30"L	Other connector	> 10 (w/w)
C	S1 to Compressors	12	90	to Compressor B, down	Other connector	> 10 (w/w)
C	S1 to Compressors	13	Pipe	down to Compressor B	Other connector	> 10 (w/w)
C	S1 to Compressors	14	90	to Compressor B, connects to FL	Other connector	> 10 (w/w)
C	S1 to Compressors	15	FL	north of valve E1	Flange	> 10 (w/w)
D	Compressor A	1	VALVE	In; Flanged	Valve in gas/vapor service	> 10 (w/w)
D	Compressor A	2	90	Flanged, down, south of valve D1	Other connector	> 10 (w/w)
D	Compressor A	3	EX	In	Other connector	> 10 (w/w)
D	Compressor A	4	CV	In	Other connector	> 10 (w/w)
D	Compressor A	5	COMPRESSOR	A	Compressor	> 10 (w/w)
D	Compressor A	6	CV	Out	Other connector	> 10 (w/w)
D	Compressor A	7	EX	Out	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
D	Compressor A	8	Plug	South Side East	Other connector	> 10 (w/w)
D	Compressor A	9	Plug	South Side West	Other connector	> 10 (w/w)
D	Compressor A	10	Plug	North Side East	Other connector	> 10 (w/w)
D	Compressor A	11	Plug	North Side Middle	Other connector	> 10 (w/w)
D	Compressor A	12	Plug	North Side West	Other connector	> 10 (w/w)
D	Compressor A	13	Plug	Bottom East	Other connector	> 10 (w/w)
D	Compressor A	14	Plug	Bottom West	Other connector	> 10 (w/w)
D	Compressor A	15	FL	South of valve D1	Flange	> 10 (w/w)
D	Compressor A	16	FL	Top of EX D3	Flange	> 10 (w/w)
D	Compressor A	17	FL	Bottom EX D3	Flange	> 10 (w/w)
D	Compressor A	18	FL	Bottom CV in D4	Flange	> 10 (w/w)
D	Compressor A	19	FL	Bottom CV out D6	Flange	> 10 (w/w)
D	Compressor A	20	FL	Bottom EX out D7	Flange	> 10 (w/w)
D	Compressor A	21	FL	Top EX out D7	Flange	> 10 (w/w)
E	Compressor B	1	VALVE	In; Flanged	Valve in gas/vapor service	> 10 (w/w)
E	Compressor B	2	90	Flanged, down, south of valve DE1	Other connector	> 10 (w/w)
E	Compressor B	3	EX	In	Other connector	> 10 (w/w)
E	Compressor B	4	CV	In	Other connector	> 10 (w/w)
E	Compressor B	5	COMPRESSOR	B	Compressor	> 10 (w/w)
E	Compressor B	6	CV	Out	Other connector	> 10 (w/w)
E	Compressor B	7	EX	Out	Other connector	> 10 (w/w)
E	Compressor B	8	Plug	South Side East	Other connector	> 10 (w/w)
E	Compressor B	9	Plug	South Side West	Other connector	> 10 (w/w)
E	Compressor B	10	Plug	North Side East	Other connector	> 10 (w/w)
E	Compressor B	11	Plug	North Side Middle	Other connector	> 10 (w/w)
E	Compressor B	12	Plug	North Side West	Other connector	> 10 (w/w)
E	Compressor B	13	Plug	Bottom East	Other connector	> 10 (w/w)
E	Compressor B	14	Plug	Bottom West	Other connector	> 10 (w/w)
E	Compressor B	15	FL	South of valve DE1	Flange	> 10 (w/w)
E	Compressor B	16	FL	Top of EX E3	Flange	> 10 (w/w)
E	Compressor B	17	FL	Bottom EX E3	Flange	> 10 (w/w)
E	Compressor B	18	FL	Bottom CV in E4	Flange	> 10 (w/w)
E	Compressor B	19	FL	Bottom CV out E6	Flange	> 10 (w/w)
E	Compressor B	20	FL	Bottom EX out E7	Flange	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
E	Compressor B	21	FL	Top EX out E7	Flange	> 10 (w/w)
F	Compressors to S2	1	Pipe	2"OD, 25"L	Other connector	> 10 (w/w)
F	Compressors to S2	8	90	from Compressor A outlet	Other connector	> 10 (w/w)
F	Compressors to S2	9	Tee	from Compressor B outlet	Other connector	> 10 (w/w)
F	Compressors to S2	10	Pipe	2"OD, 10"L, from Tee to 45elbow	Other connector	> 10 (w/w)
F	Compressors to S2	11	45	down	Other connector	> 10 (w/w)
F	Compressors to S2	12	Pipe	45 to 45, 1"L	Other connector	> 10 (w/w)
F	Compressors to S2	13	45	South	Other connector	> 10 (w/w)
F	Compressors to S2	14	Pipe	2"OD inlet to S2	Other connector	> 10 (w/w)
F	Compressors to S2	2	Bushing	1" x 1/2" for TG	Other connector	> 10 (w/w)
F	Compressors to S2	15	Coupling	for TG	Other connector	> 10 (w/w)
F	Compressors to S2	3	TG	Temperature Guage	Other connector	> 10 (w/w)
F	Compressors to S2	4	NIP	2" for PG	Other connector	> 10 (w/w)
F	Compressors to S2	5	VALVE	for PG	Valve in gas/vapor service	> 10 (w/w)
F	Compressors to S2	16	Coupling	for PG	Other connector	> 10 (w/w)
F	Compressors to S2	6	PG	Pressure Guage	Other connector	> 10 (w/w)
F	Compressors to S2	7	FL	S2 Side Inlet	Flange	> 10 (w/w)
G	Makeup Water Line to S2	1	Check Valve	Needs to added before Air Valve # 13		
G	Makeup Water Line to S2	2	NIP	6"L west of valve G3	Other connector	
G	Makeup Water Line to S2	3	Air Valve		Valve	
G	Makeup Water Line to S3	17	FL	west of valve G3	Flange	
G	Makeup Water Line to S2	4	NIP	6"L east of valve G3	Other connector	
G	Makeup Water Line to S2	5	FL	threaded	Flange	
G	Makeup Water Line to S2	6	TP	FL to 8" TP	Other connector	
G	Makeup Water Line to S2	7	90	up	Other connector	
G	Makeup Water Line to S3	16	Pipe	8"L between 90 G7 and FL G5	Other connector	
G	Makeup Water Line to S2	8	TP	8"	Other connector	
G	Makeup Water Line to S2	9	90	south	Other connector	
G	Makeup Water Line to S2	10	NIP	3"	Other connector	
G	Makeup Water Line to S2	11	Tee		Other connector	
G	Makeup Water Line to S2	12	NIP	3"L south from Tee # 11	Other connector	
G	Makeup Water Line to S2	13	Coupling	Inlet into north side of S2	Other connector	
G	Makeup Water Line to S2	14	NIP	3" east from Tee # 11	Other connector	

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
G	Makeup Water Line to S2	15	VALVE	# 28	Valve	
H	S2	1	Coupling	Top Outlet for PRV	Other connector	> 10 (w/w)
H	S2	2	PRV	# 2	Pressure relief devices	> 10 (w/w)
H	S2	3	Coupling	Outlet for PT from south side of outlet to Refrigerated Condensers	Other connector	> 10 (w/w)
H	S2	4	Compression Fitting		Other connector	> 10 (w/w)
H	S2	5	Pipe	1/4" SS Line	Other connector	> 10 (w/w)
H	S2	6	PT	Pressure Transmitter	Other connector	
H	S2	7	FL	Top of Level Transmitter	Flange	> 10 (w/w)
H	S2	8	Coupling	Outlet for top of Level Transmitter	Other connector	> 10 (w/w)
H	S2	27	NIP	Top of Level Transmitter	Other connector	> 10 (w/w)
H	S2	28	Coupling	Outlet for bottom of Level Transmitter	Other connector	> 10 (w/w)
H	S2	9	NIP	3"	Other connector	> 10 (w/w)
H	S2	10	90	down	Other connector	> 10 (w/w)
H	S2	11	NIP	3"	Other connector	> 10 (w/w)
H	S2	12	UNION		Other connector	> 10 (w/w)
H	S2	13	NIP	5"	Other connector	> 10 (w/w)
H	S2	14	LT	Bottom of Level Transmitter	Other connector	> 10 (w/w)
H	S2	15	Coupling	for PG, north side S2	Other connector	> 10 (w/w)
H	S2	16	Bushing	north side S2, 3/4" x 1/4"	Other connector	> 10 (w/w)
H	S2	17	NIP	north side S2, 1"	Other connector	> 10 (w/w)
H	S2	18	90	north side S2,up	Other connector	> 10 (w/w)
H	S2	19	NIP	north side S2	Other connector	> 10 (w/w)
H	S2	20	VALVE	north side S2	Valve in gas/vapor service	> 10 (w/w)
H	S2	21	PG	north side S2	Other connector	> 10 (w/w)
H	S2	22	VALVE	Top of SG	Valve in light liquid service	> 10 (w/w)
H	S2	23	VALVE	Bottom of SG	Valve in light liquid service	> 10 (w/w)
H	S2	24	Plug	Bottom of Bottom Valve of SG	Other connector	> 10 (w/w)
H	S2	25	Coupling	Refrigerant In	Other connector	

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
H	S2	26	Coupling	Refrigerant Out	Other connector	
I	S2 to S1	1	FL	Outlet from top of S2	Flange	> 10 (w/w)
I	S2 to S1	2	FL	South of valve I3	Flange	> 10 (w/w)
I	S2 to S1	3	VALVE		Valve in gas/vapor service	> 10 (w/w)
I	S2 to S1	4	FL	South of valve I5	Flange	> 10 (w/w)
I	S2 to S1	5	VALVE	Control Valve	Valve in gas/vapor service	> 10 (w/w)
I	S2 to S1	6	FL	FL, North of valve I5	Flange	> 10 (w/w)
I	S2 to S1	7	FL	FL, North of FL north of valve I5	Flange	> 10 (w/w)
I	S2 to S1	8	FL	Inlet into top of S1, southeast side	Flange	> 10 (w/w)
I	S2 to S1	9	Pipe	2"OD from top of S2	Other connector	> 10 (w/w)
I	S2 to S1	10	90	top of S2	Other connector	> 10 (w/w)
I	S2 to S1	11	Pipe	2"OD, 40"L	Other connector	> 10 (w/w)
I	S2 to S1	12	FL	North of valve I3	Flange	> 10 (w/w)
I	S2 to S1	13	Pipe	2"OD, 3"L north of I12	Other connector	> 10 (w/w)
I	S2 to S1	14	reducer	2" to 1"OD	Other connector	> 10 (w/w)
I	S2 to S1	15	reducer	1" to 2"OD, North of valve I5	Other connector	> 10 (w/w)
I	S2 to S1	16	Pipe	North-south	Other connector	> 10 (w/w)
I	S2 to S1	17	90	west	Other connector	> 10 (w/w)
I	S2 to S1	18	Pipe	access	Other connector	> 10 (w/w)
I	S2 to S1	19	90	down	Other connector	> 10 (w/w)
I	S2 to S1	20	Pipe	down	Other connector	> 10 (w/w)
I	S2 to S1	21	Pipe	2"OD to S1	Other connector	> 10 (w/w)
J	S2 to S3	1	FL	Outlet from side of S2	Flange	> 10 (w/w)
J	S2 to S3	2	Pipe	pipe, 18"L	Other connector	> 10 (w/w)
J	S2 to S3	3	FL	Inlet into side of S3	Flange	> 10 (w/w)
J	S2 to S3	4	Pipe	2"OD pipe from S2	Other connector	> 10 (w/w)
J	S2 to S3	5	Pipe	2"OD pipe from S3	Other connector	> 10 (w/w)
K	S3	1	FL	Top of Level Transmitter	Flange	> 10 (w/w)
K	S3	2	Coupling	Outlet for top of Level Transmitter	Other connector	> 10 (w/w)
K	S3	18	NIP	Top of Level Transmitter	Other connector	> 10 (w/w)
K	S3	19	Coupling	Bottom of Level Transmitter	Other connector	> 10 (w/w)
K	S3	3	NIP	Bottom of Level Transmitter, 1/2"	Other connector	> 10 (w/w)
K	S3	4	90	Bottom of Level Transmitter, SE	Other connector	> 10 (w/w)
K	S3	5	NIP	Bottom of Level Transmitter, 3"	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
K	S3	6	90	Bottom of Level Transmitter, down	Other connector	> 10 (w/w)
K	S3	7	NIP	Bottom of Level Transmitter, 3"	Other connector	> 10 (w/w)
K	S3	8	UNION	Bottom of Level Transmitter	Other connector	> 10 (w/w)
K	S3	9	NIP	Bottom of Level Transmitter, 6"	Other connector	> 10 (w/w)
K	S3	10	LT	Bottom of Level Transmitter	Other connector	> 10 (w/w)
K	S3	11	VALVE	Top of SG	Valve in light liquid service	> 10 (w/w)
K	S3	12	VALVE	Bottom of SG	Valve in light liquid service	> 10 (w/w)
K	S3	13	Plug	Bottom of Bottom Valve of SG	Other connector	> 10 (w/w)
K	S3	20	Coupling	Top of SG	Other connector	> 10 (w/w)
K	S3	21	Coupling	Bottom of SG	Other connector	> 10 (w/w)
K	S3	22	SG	Sight glass	Other connector	> 10 (w/w)
K	S3	14	Coupling	1/2" on Bottom West Side for Drain Valve	Other connector	> 10 (w/w)
K	S3	15	NIP	1"	Other connector	> 10 (w/w)
K	S3	16	VALVE	Drain	Valve in light liquid service	> 10 (w/w)
K	S3	17	Plug		Other connector	> 10 (w/w)
L	S2 to Filter	1	FL	Outlet	Flange	> 10 (w/w)
L	S2 to Filter	2	Pipe	90 down, reducer 2" x 1 1/2", 90 west, pipe, 90 south, pipe, 90 west, pipe, 90 up, pipe	Other connector	> 10 (w/w)
L	S2 to Filter	3	VALVE		Valve in light liquid service	> 10 (w/w)
L	S2 to Filter	4	Pipe	Reducer, 1 1/2" x 2", 90 north	Other connector	> 10 (w/w)
L	S2 to Filter	5	FL	Filter Inlet	Other connector	> 10 (w/w)
L	S2 to Filter	6	NIP	For PG before filter	Other connector	> 10 (w/w)
L	S2 to Filter	7	Tee	For PG before filter	Other connector	> 10 (w/w)
L	S2 to Filter	8	NIP	For PG before filter, south from Tee (# 7)	Other connector	> 10 (w/w)
L	S2 to Filter	9	VALVE	For PG before filter	Valve in light liquid service	> 10 (w/w)
L	S2 to Filter	10	Plug	For PG before filter	Other connector	> 10 (w/w)
L	S2 to Filter	11	NIP	For PG before filter, up from Tee (# 7)	Other connector	> 10 (w/w)
L	S2 to Filter	12	VALVE	For PG before filter	Valve in light liquid service	> 10 (w/w)
L	S2 to Filter	13	PG	Pressure Guage	Other connector	> 10 (w/w)
L	S2 to Filter	14	Pipe	2"OD North S2	Other connector	> 10 (w/w)
L	S2 to Filter	15	FL	side close to S2	Flange	> 10 (w/w)
L	S2 to Filter	16	FL	side close to filter	Flange	> 10 (w/w)
AE	Filter	1	Plug	In Top Flange Cover	Other connector	> 10 (w/w)
AE	Filter	2	FL	Top Cover	Flange	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
AE	Filter	3	Coupling	2" Bottom Outlet	Other connector	> 10 (w/w)
AE	Filter	4	Bushing	2" x 1/2"	Other connector	> 10 (w/w)
AE	Filter	5	NIP	1/2"	Other connector	> 10 (w/w)
AE	Filter	6	90	SW	Other connector	> 10 (w/w)
AE	Filter	7	NIP	1/2"	Other connector	> 10 (w/w)
AE	Filter	8	VALVE	# 23	Valve in light liquid service	> 10 (w/w)
AE	Filter	9	Plug		Other connector	> 10 (w/w)
M	Filter to Condenser	1	FL	Outlet	Flange	> 10 (w/w)
M	Filter to Condenser	18	Pipe	2" pipe north from filter	Other connector	> 10 (w/w)
M	Filter to Condenser	2	Pipe	Reducer 2" x 1 1/2"	Other connector	> 10 (w/w)
M	Filter to Condenser	3	VALVE		Valve in light liquid service	> 10 (w/w)
M	Filter to Condenser	19	FL	FL, north valve M3	Flange	> 10 (w/w)
M	Filter to Condenser	20	FL	FL, south valve M3	Flange	> 10 (w/w)
M	Filter to Condenser	4	Pipe	Pipe with couplings for PG and TG	Other connector	> 10 (w/w)
M	Filter to Condenser	5	NIP	for PG	Other connector	> 10 (w/w)
M	Filter to Condenser	21	Coupling	for PG	Other connector	> 10 (w/w)
M	Filter to Condenser	6	VALVE	for PG	Valve in light liquid service	> 10 (w/w)
M	Filter to Condenser	7	PG	Pressure Guage	Other connector	> 10 (w/w)
M	Filter to Condenser	8	Bushing	1" x 1/2" for TG	Other connector	> 10 (w/w)
M	Filter to Condenser	22	Coupling	for TG	Other connector	> 10 (w/w)
M	Filter to Condenser	9	TG	Temperautre Guage	Other connector	> 10 (w/w)
M	Filter to Condenser	10	FL	Threaded, 1 1/4"	Flange	> 10 (w/w)
M	Filter to Condenser	11	NIP	2"	Other connector	> 10 (w/w)
M	Filter to Condenser	12	90	down	Other connector	> 10 (w/w)
M	Filter to Condenser	13	NIP		Other connector	> 10 (w/w)
M	Filter to Condenser	14	Coupling		Other connector	> 10 (w/w)
M	Filter to Condenser	15	NIP		Other connector	> 10 (w/w)
M	Filter to Condenser	16	90	north	Other connector	> 10 (w/w)
M	Filter to Condenser	17	TP	threaded inlet on bottom side of condenser	Other connector	> 10 (w/w)
N	Condenser to Chilled Condenser	1	TP	threaded outlet	Other connector	> 10 (w/w)
N	Condenser to Chilled Condenser	2	90	down	Other connector	> 10 (w/w)
N	Condenser to Chilled Condenser	3	Multi	TP, pipe with couplings for PG and TG, FL	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
N	Condenser to Chilled Condenser	4	NIP	3" for PG	Other connector	> 10 (w/w)
N	Condenser to Chilled Condenser	5	VALVE		Valve in light liquid service	> 10 (w/w)
N	Condenser to Chilled Condenser	6	PG		Other connector	> 10 (w/w)
N	Condenser to Chilled Condenser	7	Bushing	1" x 1/2" for TG	Other connector	> 10 (w/w)
N	Condenser to Chilled Condenser	8	TG		Other connector	> 10 (w/w)
N	Condenser to Chilled Condenser	9	FL	threaded	Flange	> 10 (w/w)
N	Condenser to Chilled Condenser	10	NIP	1"	Other connector	> 10 (w/w)
N	Condenser to Chilled Condenser	11	90	north	Other connector	> 10 (w/w)
N	Condenser to Chilled Condenser	12	TP	inlet on bottom of chilled condenser	Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	1	TP	1/2" threaded top outlet up	Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	2	90		Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	3	UNION		Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	4	Pipe		Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	5	90		Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	6	Tee		Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	7	Plug		Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	8	Pipe		Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	9	90		Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	85	Tee	From Chiller to Tee C10	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
○	Chilled Condenser to Compressors	86	NIP	From Chiller to Tee C10	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	87	UNION	From Chiller to Tee C10	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	88	NIP	From Chiller to Tee C10	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	89	VALVE	From Chiller to Tee C10	Valve in light liquid service	> 10 (w/w)
○	Chilled Condenser to Compressors	90	NIP	From Chiller to Tee C10	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	10	Tee	to Compressors A & B	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	11	NIP	1" north from side of Tee (# 10)	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	12	UNION		Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	13	NIP	1"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	14	90	east	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	15	NIP		Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	16	VALVE		Valve in light liquid service	> 10 (w/w)
○	Chilled Condenser to Compressors	17	NIP	5"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	18	Tee	for makeup water into side from the north (Note:	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	19	NIP	3" east from Tee (# 18)	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	20	FM	Flow Meter	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	21	NIP		Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	22	Bushing	1/2" x 1 1/2"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	23	Tee	for Flow Sensor into top side inlet	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
○	Chilled Condenser to Compressors	24	Bushing	1 1/2" x 1/2" east from Tee (# 23)	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	25	NIP	3"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	26	UNION		Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	27	NIP	1"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	28	AV	Air Valve # 59	Valve in light liquid service	> 10 (w/w)
○	Chilled Condenser to Compressors	29	NIP	1"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	30	UNION		Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	31	NIP	3"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	32	Tee	for PG	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	33	Bushing	1/2" x 1/4" into top side of Tee (# 32) for PG	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	34	NIP	1"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	35	VALVE		Valve in light liquid service	> 10 (w/w)
○	Chilled Condenser to Compressors	36	PG		Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	37	NIP	3" east from Tee (# 32)	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	38	90	south	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	39	NIP	5" into Compressor A	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	40	NIP	From Tee C10 to Tee C49, 1" east	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	41	VALVE	From Tee C10 to Tee C49	Valve in light liquid service	> 10 (w/w)
○	Chilled Condenser to Compressors	42	NIP	From Tee C10 to Tee C49, 1"	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
○	Chilled Condenser to Compressors	43	90	From Tee C10 to Tee C49, north	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	44	NIP	From Tee C10 to Tee C49, 1"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	45	90	From Tee C10 to Tee C49, down	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	46	NIP	From Tee C10 to Tee C49, 1"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	47	UNION	From Tee C10 to Tee C49,	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	48	NIP	From Tee C10 to Tee C49, 1"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	49	Tee	for makeup water into east end (Note: need check valve)	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	50	NIP	1" from west end of Tee (# 49)	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	51	90	down	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	52	NIP	2"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	53	90	south	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	54	NIP	3"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	55	UNION		Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	56	NIP		Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	57	Bushing	1/2" x 1 1/2"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	58	Tee	for Flow Sensor into top side inlet	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	59	Bushing	1 1/2" x 1/2" east from Tee (# 58)	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	60	NIP	3"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	61	UNION		Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
○	Chilled Condenser to Compressors	62	NIP	1"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	63	AV	Air Valve # 58	Valve in light liquid service	> 10 (w/w)
○	Chilled Condenser to Compressors	64	NIP	5"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	65	UNION		Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	66	NIP	2"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	67	90	up	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	68	NIP	3"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	69	VALVE		Valve in light liquid service	> 10 (w/w)
○	Chilled Condenser to Compressors	70	NIP	2"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	71	90	east	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	72	TP	12"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	73	FM	Flow Meter	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	74	TP	12"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	75	Tee	for PG	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	76	Bushing	1/2" x 1/4" into top side of Tee (# 75) for PG	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	77	NIP	1"	Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	78	VALVE		Valve in light liquid service	> 10 (w/w)
○	Chilled Condenser to Compressors	79	PG		Other connector	> 10 (w/w)
○	Chilled Condenser to Compressors	80	NIP	5" east from Tee (# 75)	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
O	Chilled Condenser to Compressors	81	UNION		Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	82	NIP	5"	Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	83	90	south	Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	84	NIP	3" into Compressor B	Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	91	SWITCH	Flow switch 1	Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	92	SWITCH	Flow switch 2	Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	93	Pipe	From air valve O63 to Compressor B	Other connector	> 10 (w/w)
O	Chilled Condenser to Compressors	94	Pipe	From air valve O63 to Compressor B	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 2	1	FL	2" Outlet from Top of S2	Flange	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 2	2	FL	1" Outlet from Top of S3	Flange	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 2	3	90		Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 2	4	VALVE	Manual into CON 1	Valve in gas/vapor service	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 2	5	VALVE	Air Valve # 40 into CON 1	Valve in gas/vapor service	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 2	6	90	East	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 2	7	FL	CON 1 inlet	Flange	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 2	8	VALVE	Manual into CON 2	Valve in gas/vapor service	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 2	9	VALVE	Air Valve # 34 into CON 2	Valve in gas/vapor service	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 2	10	Multi	FL, 90 east, FL	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 2	11	FL	CON 2 inlet	Flange	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
P	S2 & S3 to Refrigerated CON 1 & 3	12	Pipe	2" pipe out of top of S2	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 4	13	Pipe	1" pipe out of top of S3	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 5	14	Pipe	S3 to Condenser	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 6	15	90	S3 to Condenser	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 7	16	Pipe	S3 to Condenser	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 8	17	90	S3 to Condenser	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 9	18	Reducer	S3 to Condenser	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 10	19	Tee		Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 11	20	90	S1 to Tee P18	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 12	21	Pipe	S1 to Tee P19, 36"L	Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 13	22	Pipe		Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 14	23	90		Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 15	24	Pipe		Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 16	25	Tee		Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 17	26	Pipe		Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 18	27	90		Other connector	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 19	28	FL	CON 1 Valve to input, top manual valve	Flange	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 20	29	FL	CON 1 Valve to input, bottom manual valve	Flange	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 21	30	FL	CON 1 Valve to input, air valve	Flange	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
P	S2 & S3 to Refrigerated CON 1 & 22	31	FL	CON 1 Valve to input, bottom of FL from air valve	Flange	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 23	32	FL	CON 2 Valve to input, top manual valve	Flange	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 24	33	FL	CON 2 Valve to input, bottom manual valve	Flange	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 25	34	FL	CON 2 Valve to input, air valve	Flange	> 10 (w/w)
P	S2 & S3 to Refrigerated CON 1 & 26	35	FL	CON 2 Valve to input, bottom of FL from air valve	Flange	> 10 (w/w)
AF	CON1	1	Coupling	Top Center Outlet for PRV	Other connector	> 10 (w/w)
AF	CON1	2	PRV		Pressure relief devices	> 10 (w/w)
AF	CON1	3	Coupling	Top of Exit Cone for TT	Other connector	> 10 (w/w)
AF	CON1	4	TT		Other connector	> 10 (w/w)
AF	CON1	5	SG	NW Inlet Cone	Other connector	> 10 (w/w)
AF	CON1	6	Coupling	Refrigerant	Other connector	> 10 (w/w)
AF	CON1	7	Coupling	Refrigerant	Other connector	> 10 (w/w)
AF	CON1	8	Coupling	Refrigerant	Other connector	> 10 (w/w)
AG	CON2	1	Coupling	Top Center Outlet for PRV	Other connector	> 10 (w/w)
AG	CON2	2	PRV		Pressure relief devices	> 10 (w/w)
AG	CON2	3	Coupling	Top of Exit Cone for TT	Other connector	> 10 (w/w)
AG	CON2	4	TT		Other connector	> 10 (w/w)
AG	CON2	5	SG	NW Inlet Cone	Other connector	> 10 (w/w)
AG	CON2	6	Coupling	Refrigerant	Other connector	> 10 (w/w)
AG	CON2	7	Coupling	Refrigerant	Other connector	> 10 (w/w)
AG	CON2	8	Coupling	Refrigerant	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	1	FL	Outlet from east end of CON2	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	2	Air Valve		Valve in light liquid service	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	3	VALVE	Manual valve	Valve in light liquid service	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	4	FL	Outlet from east end of CON1	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	5	Air Valve		Valve in light liquid service	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	6	VALVE		Valve in light liquid service	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	7	90	From CON2	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	8	NIP	3" for PG	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
Q	Refrigerated CON 1 & 2 Out	9	VALVE		Valve in light liquid service	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	10	PG		Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	11	FT	Flow Transmitter	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	12	FL	South of control valve	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	13	Tee		Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	14	Control Valve		Valve in light liquid service	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	15	FL	North of control valve	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	16	Reducer	1" x 2"	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	17	90	CON2, attached to FL from outlet of CON2	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	18	FL	CON2, bottom air valve	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	19	FL	CON2, air valve	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	20	FL	CON2, bottom manual valve	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	21	FL	CON2, top manual valve	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	22	90	CON1, attached to FL from outlet of CON2	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	23	FL	CON1, bottom air valve	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	24	FL	CON1, air valve	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	25	FL	CON1, bottom manual valve	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	26	FL	CON1, top manual valve	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	27	Pipe	CON2 to CON1	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	28	Tee	from CON1	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	29	Pipe	from Tee CON1 going north to 90	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	30	90		Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	31	Pipe	down, 30"L where flow meter is mounted	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	32	90		Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	33	Pipe	36"L, outlet for flow meter	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	34	Reducer	2" x 3/4"OD	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	35	Pipe	3/4"OD, 12"L	Other connector	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	36	FL	north side flow transmitter	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	37	FL	south side flow transmitter	Flange	> 10 (w/w)
Q	Refrigerated CON 1 & 2 Out	38	Tee	splits to carbon and atm	Other connector	> 10 (w/w)
R	To Carbon	1	Air Valve		Valve in gas/vapor service	> 10 (w/w)
R	To Carbon	2	Flanged Tee	for PRV	Other connector	> 10 (w/w)
R	To Carbon	3	PRV	# 5 (Note: Needs cleaning!)		
R	To Carbon	4	Coupling	For PG	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
R	To Carbon	5	NIP	For PG, 1"	Other connector	> 10 (w/w)
R	To Carbon	6	90	For PG	Other connector	> 10 (w/w)
R	To Carbon	7	NIP	For PG, 3"	Other connector	> 10 (w/w)
R	To Carbon	8	VALVE	For PG	Valve in gas/vapor service	> 10 (w/w)
R	To Carbon	9	PG	Pressure Gauge	Other connector	> 10 (w/w)
R	To Carbon	10	Flame Arrestor	flanged	Other connector	> 10 (w/w)
R	To Carbon	11	Flanged Pipe		Other connector	> 10 (w/w)
R	To Carbon	12	90	west	Other connector	> 10 (w/w)
R	To Carbon	13	UNION		Other connector	> 10 (w/w)
R	To Carbon	14	TP	12"	Other connector	> 10 (w/w)
R	To Carbon	15	Bushing	2" x 4"	Other connector	> 10 (w/w)
R	To Carbon	16	Coupling	Carbon Drum # 1 Top Inlet	Other connector	> 10 (w/w)
R	To Carbon	17	Coupling	Carbon Drum # 1 Bottom West Side Outlet	Other connector	> 10 (w/w)
R	To Carbon	18	Bushing	4" x 2"	Other connector	> 10 (w/w)
R	To Carbon	19	NIP		Other connector	> 10 (w/w)
R	To Carbon	20	90	up	Other connector	> 10 (w/w)
R	To Carbon	21	TP	3'	Other connector	> 10 (w/w)
R	To Carbon	22	90	west	Other connector	> 10 (w/w)
R	To Carbon	23	NIP	3"	Other connector	> 10 (w/w)
R	To Carbon	24	UNION		Other connector	> 10 (w/w)
R	To Carbon	25	NIP	4"	Other connector	> 10 (w/w)
R	To Carbon	26	90	down	Other connector	> 10 (w/w)
R	To Carbon	27	TP	7"	Other connector	> 10 (w/w)
R	To Carbon	28	Bushing	2" x 4"	Other connector	> 10 (w/w)
R	To Carbon	29	Coupling	Carbon Drum # 2 Top Inlet	Other connector	> 10 (w/w)
R	To Carbon	30	Coupling	Carbon Drum # 2 Bottom West Side Outlet	Other connector	> 10 (w/w)
R	To Carbon	31	Bushing	4" x 2"	Other connector	> 10 (w/w)
R	To Carbon	32	NIP	2"	Other connector	> 10 (w/w)
R	To Carbon	33	90	up	Other connector	> 10 (w/w)
R	To Carbon	34	Pipe	TP up 6'	Other connector	> 10 (w/w)
R	To Carbon	35	Pipe	10"L down	Other connector	> 10 (w/w)
R	To Carbon	36	90		Other connector	> 10 (w/w)
R	To Carbon	37	Pipe	8" across	Other connector	> 10 (w/w)
R	To Carbon	38	FL	South air valve	Flange	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
R	To Carbon	39	FL	air valve	Flange	> 10 (w/w)
R	To Carbon	40	FL	north air valve	Flange	> 10 (w/w)
R	To Carbon	41	FL	end down	Flange	> 10 (w/w)
R	To Carbon	42	FL	north of tee R2	Flange	> 10 (w/w)
R	To Carbon	43	FL	south	Flange	> 10 (w/w)
R	To Carbon	44	FL	north	Flange	> 10 (w/w)
R	To Carbon	45	FL	northeast side	Flange	> 10 (w/w)
R	To Carbon	46	Pipe	across, 40"L	Other connector	> 10 (w/w)
R	To Carbon	47	90	norht	Other connector	> 10 (w/w)
R	To Carbon	48	Pipe	8" north	Other connector	> 10 (w/w)
R	To Carbon	49	90	down	Other connector	> 10 (w/w)
R	To Carbon	50	Pipe	3" length down	Other connector	> 10 (w/w)
S	To Vent	1	Air Valve		Valve in gas/vapor service	> 10 (w/w)
S	To Vent	2	Reducer	2" x 3"	Other connector	> 10 (w/w)
S	To Vent	3	90	Up	Other connector	> 10 (w/w)
S	To Vent	4	Pipe	3'L	Other connector	> 10 (w/w)
S	To Vent	5	Pipe	between Tee and air valve	Other connector	> 10 (w/w)
S	To Vent	6	FL	south air valve	Flange	> 10 (w/w)
S	To Vent	7	FL	air valve	Flange	> 10 (w/w)
S	To Vent	8	FL	north air valve	Flange	> 10 (w/w)
S	To Vent	9	FL	north reducer	Flange	> 10 (w/w)
S	To Vent	10	90	east	Other connector	> 10 (w/w)
S	To Vent	11	FL		Flange	> 10 (w/w)
S	To Vent	12	Pipe	3" OD pipe with welded end cap and 2" south side	Other connector	> 10 (w/w)
T	Refrigerated CON 1 to CR1 Top	1	Coupling		Other connector	> 10 (w/w)
T	Refrigerated CON 1 to CR1 Top	2	Pipe	CON1 to CR1 top, 5"L	Other connector	> 10 (w/w)
T	Refrigerated CON 1 to CR1 Top	3	90	CON1 to CR1 top	Other connector	> 10 (w/w)
T	Refrigerated CON 1 to CR1 Top	4	Pipe	CON1 to CR1 top, down, 6"	Other connector	> 10 (w/w)
T	Refrigerated CON 1 to CR1 Top	5	90	CON1 to CR1 top	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
T	Refrigerated CON 1 to CR1 Top	6	Pipe	CON1 to CR1 top, 40"L across	Other connector	> 10 (w/w)
T	Refrigerated CON 1 to CR1 Top	7	90	CON1 to CR1 top	Other connector	> 10 (w/w)
T	Refrigerated CON 1 to CR1 Top	8	Pipe	CON1 to CR1 top, down	Other connector	> 10 (w/w)
T	Refrigerated CON 1 to CR1 Top	9	90	CON1 to CR1 top	Other connector	> 10 (w/w)
T	Refrigerated CON 1 to CR1 Top	10	Pipe	CON1 to CR1 top, 12"L	Other connector	> 10 (w/w)
T	Refrigerated CON 1 to CR1 Top	12	Pipe	From CR1 top	Other connector	> 10 (w/w)
T	Refrigerated CON 1 to CR1 Top	11	FL	CR1 Top Inlet	Flange	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	1	Pipe	TP out from bottom center of CON1	Other connector	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	2	Cross	welded	Other connector	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	3	SG	North Flange	Other connector	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	4	SG	South Flange	Other connector	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	5	Reducer	1" x 2"	Other connector	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	6	FL	Middle West Side Inlet	Flange	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	7	Pipe	down, 2" length	Other connector	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	8	90		Other connector	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	9	Pipe	across, 12" down	Other connector	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	10	90		Other connector	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	11	Pipe	9"L down	Other connector	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	12	FL	top of cross	Flange	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
U	Refrigerated CON 1 to CR1 Side	13	FL	bottom of cross	Flange	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	14	90		Other connector	> 10 (w/w)
U	Refrigerated CON 1 to CR1 Side	15	Pipe	from CR1, 2"	Other connector	> 10 (w/w)
V	CR1	1	FL	Top of Level Transmitter	Flange	> 10 (w/w)
V	CR1	2	Coupling	Outlet for top of Level Transmitter	Other connector	> 10 (w/w)
V	CR1	3	NIP	1"	Other connector	> 10 (w/w)
V	CR1	4	90	down	Other connector	> 10 (w/w)
V	CR1	5	NIP	3"	Other connector	> 10 (w/w)
V	CR1	6	UNION		Other connector	> 10 (w/w)
V	CR1	7	NIP	6"	Other connector	> 10 (w/w)
V	CR1	8	LT	Bottom of Level Transmitter	Other connector	> 10 (w/w)
V	CR1	9	VALVE	Top of SG	Valve in light liquid service	> 10 (w/w)
V	CR1	10	VALVE	Bottom of SG	Valve in light liquid service	> 10 (w/w)
V	CR1	11	Plug	Bottom of Bottom Valve of SG	Other connector	> 10 (w/w)
V	CR1	12	LG	level gauge, south side of CR1	Other connector	> 10 (w/w)
V	CR1	13	VALVE	East CR1	Open-ended valve or line	> 10 (w/w)
V	CR1	14	Plug	Note: Removed extra pieces (NIP, 90, NIP, 90, NIP)	Other connector	> 10 (w/w)
W	Refrigerated CON 2 to CR2 Top	1	Coupling		Other connector	> 10 (w/w)
W	Refrigerated CON 2 to CR2 Top	2	Pipe	CON2 to CR2 top, 5"L	Other connector	> 10 (w/w)
W	Refrigerated CON 2 to CR2 Top	3	90	CON2 to CR2 top	Other connector	> 10 (w/w)
W	Refrigerated CON 2 to CR2 Top	4	Pipe	CON2 to CR2 top, down, 6"	Other connector	> 10 (w/w)
W	Refrigerated CON 2 to CR2 Top	5	90	CON2 to CR2 top	Other connector	> 10 (w/w)
W	Refrigerated CON 2 to CR2 Top	6	Pipe	CON2to CR2 top, 40"L across	Other connector	> 10 (w/w)
W	Refrigerated CON 2 to CR2 Top	7	90	CON2 to CR2 top	Other connector	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
W	Refrigerated CON 2 to CR2 Top	8	Pipe	CON2 to CR2 top, down	Other connector	> 10 (w/w)
W	Refrigerated CON 2 to CR2 Top	9	90	CON2to CR2 top	Other connector	> 10 (w/w)
W	Refrigerated CON 2 to CR2 Top	10	Pipe	CON2 to CR2 top, 12"L	Other connector	> 10 (w/w)
W	Refrigerated CON 2 to CR2 Top	12	Pipe	From CR2 top	Other connector	> 10 (w/w)
W	Refrigerated CON 2 to CR2 Top	11	FL	CR2 Top Inlet	Flange	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	1	Pipe	TP out from bottom center of CON2	Other connector	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	2	Cross	Welded	Other connector	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	3	SG	North Flange	Other connector	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	4	SG	South Flange	Other connector	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	5	Reducer	1" x 2"	Other connector	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	6	FL	Middle West Side Inlet	Flange	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	7	Pipe	down, 2" length	Other connector	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	8	90		Other connector	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	9	Pipe	across, 12" down	Other connector	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	10	90		Other connector	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	11	Pipe	9"L down	Other connector	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	12	FL	top of cross	Flange	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
X	Refrigerated CON 2 to CR2 Side	13	FL	bottom of cross	Flange	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	14	90		Other connector	> 10 (w/w)
X	Refrigerated CON 2 to CR2 Side	15	Pipe	from CR2, 2"	Other connector	> 10 (w/w)
Y	CR2	1	FL	Top of Level Transmitter	Flange	> 10 (w/w)
Y	CR2	2	Coupling	Outlet for top of Level Transmitter	Other connector	> 10 (w/w)
Y	CR2	3	NIP	1"	Other connector	> 10 (w/w)
Y	CR2	4	90	down	Other connector	> 10 (w/w)
Y	CR2	5	NIP	3"	Other connector	> 10 (w/w)
Y	CR2	6	UNION		Other connector	> 10 (w/w)
Y	CR2	7	NIP	6"	Other connector	> 10 (w/w)
Y	CR2	8	LT	Bottom of Level Transmitter	Other connector	> 10 (w/w)
Y	CR2	9	VALVE	Top of SG	Valve in light liquid service	> 10 (w/w)
Y	CR2	10	VALVE	Bottom of SG	Valve in light liquid service	> 10 (w/w)
Y	CR2	11	Plug	Bottom of Bottom Valve of SG	Other connector	> 10 (w/w)
Y	CR2	12	TP	for Drain Valve	Other connector	> 10 (w/w)
Y	CR2	13	VALVE	east CR2	Open-ended valve or line	> 10 (w/w)
Y	CR2	14	Plug	Note: Removed extra pieces (NIP, 90, NIP, 90, NI	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	1	FL	Bottom Outlet from CR2	Flange	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	2	Air Valve	# 38	Valve in light liquid service	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	3	FL	threaded	Flange	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	4	NIP	3"	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	5	90	east	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	6	NIP	1"	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	7	Check Valve	# 7	Valve in light liquid service	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	8	FL	Bottom Outlet from CR1	Flange	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
Z	CR2, CR1, S2, S3, & S1 to Pump	9	Air Valve	# 44	Valve in light liquid service	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	10	FL	threaded	Flange	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	11	NIP	3"	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	12	90	east	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	13	NIP	1"	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	14	Check Valve	# 8	Valve in light liquid service	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	15	Multi	TP east from CV # 7, 90 north, 3" pipe, tee with TP into east side from CV # 8 and out north to 1/2" x 1" reducer, 20" pipe with TP down for drain valve # 55, FL	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	16	Drain Valve	# 55	Open-ended valve or line	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	17	Plug		Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	18	VALVE	# 45; separates CR2 & CR1 from S2 & S3	Valve in light liquid service	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	19	FL	Bottom Outlet from S2	Flange	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	20	Multi	FL, 2" x 1" reducer, 90, FL	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	21	VALVE	# 27	Valve in light liquid service	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	22	FL	Bottom Outlet from S3	Flange	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	23	Air Valve	# ??	Valve in light liquid service	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	24	Multi	FL, 6" pipe, 90 north, 8" pipe, 90 east, 3.5' pipe, F	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	25	VALVE	# 32	Valve in light liquid service	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
Z	CR2, CR1, S2, S3, & S1 to Pump	26	Multi	FL from Valve # 27, 3" pipe, 90 north, 12 " pipe, tee with FL and pipe into west side from Valve # 32 and pipe and FL north to check valve # 1	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	27	Check Valve	# 1	Valve in light liquid service	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	28	Multi	FL, 3' pipe, 90 down, 4" pipe from valve # 45 into top of tee with south end from FL, 2" pipe from check valve # 1 and north end out to 6' pipe, 90 west, 6" pipe into 1 1/2" pipe connecting from 90, FL from S1 and to pipe, FL to valve just before pump	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	29	FL	4" Bottom East Side Outlet from S1	Flange	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	30	FL	threaded	Flange	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	31	Bushing	4" x 1 1/2"	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	32	NIP	3"	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	33	FL	threaded; connected to # 28 above	Flange	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	34	VALVE	before pump	Valve in light liquid service	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	35	Multi	FL to TP into pump	Other connector	> 10 (w/w)
Z	CR2, CR1, S2, S3, & S1 to Pump	36	Pump		Pump in light liquid service	> 10 (w/w)
AA	Pump to Receiver by East Trough	1	NIP	3"	Other connector	> 10 (w/w)
AA	Pump to Receiver by East Trough	2	Check Valve		Valve in light liquid service	> 10 (w/w)
AA	Pump to Receiver by East Trough	3	Multi	TP, pipe with to side valve # 4, FL	Other connector	> 10 (w/w)
AA	Pump to Receiver by East Trough	4	VALVE	# 4	Valve in light liquid service	> 10 (w/w)

VOC Recovery System

VOC SYSTEM / RECTANGLE TAGS						
Label	COMPONENT/Line	Sequence #	Pipe Type	Description/Note	Equip Type	Organics
AA	Pump to Receiver by East Trough	5	Hose Fitting	for pumping up from sump	Other connector	> 10 (w/w)
AA	Pump to Receiver by East Trough	6	Multi	FL, 2.5' pipe, 90 up, 5' pipe, 90 NE, 4.5' pipe, 90 up, 4' pipe, 90 north, 18' pipe, 90 east, 18' pipe, socket weld coupling, 4' pipe, 45 down, 6' pipe to threads	Other connector	> 10 (w/w)
AA	Pump to Receiver by East Trough	7	45	east	Other connector	> 10 (w/w)
AA	Pump to Receiver by East Trough	8	NIP	1"	Other connector	> 10 (w/w)
AA	Pump to Receiver by East Trough	9	45	NE	Other connector	> 10 (w/w)
AA	Pump to Receiver by East Trough	10	TP	4'	Other connector	> 10 (w/w)
AA	Pump to Receiver by East Trough	11	Bushing	1" x 2"	Other connector	> 10 (w/w)
AA	Pump to Receiver by East Trough	12	Coupling	Inlet into NE middle top side of Receiver by East T	Other connector	> 10 (w/w)
NOTES: OD = outside diameter, L = length; TP = Threaded Pipe; Reducer = either increasing or reducing						

VOC Recovery System

HW State	Compliance Method	Comments	Leak? Y/N	Leak Conc.	Int.
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions	Missing plug			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions	Not sure if needs plug			
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				

VOC Recovery System

HW State	Compliance Method	Comments	Leak? Y/N	Leak Conc.	Int.
		Needs plug. G's might not be necessary because only make-up water. Numbering stops at FL left of valve G3			
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				

VOC Recovery System

HW State	Compliance Method	Comments	Leak? Y/N	Leak Conc.	Int.
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				

VOC Recovery System

HW State	Compliance Method	Comments	Leak? Y/N	Leak Conc.	Int.
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions	Missing plug			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				

VOC Recovery System

HW State	Compliance Method	Comments	Leak? Y/N	Leak Conc.	Int.
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions	Square tag - change to rectangle			
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions	Missing tag			
Light Liquid	No detectable emissions				

VOC Recovery System

HW State	Compliance Method	Comments	Leak? Y/N	Leak Conc.	Int.
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions				
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Gas/Vapor	No detectable emissions	New			
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			
Light Liquid	No detectable emissions	New			

VOC Recovery System

HW State	Compliance Method	Comments	Leak? Y/N	Leak Conc.	Int.
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				
Light Liquid	No detectable emissions				

Equipment	Compliance
Pumps in light liquid service	Monthly LDAR
	Dual mechanical seal w/barrier fluid
	No Detectable Emissions
	Closed-vent system
Compressors	Seal w/barrier fluid
	Closed-vent system
	No Detectable Emissions
Pressure relief devices in gas/vapor service	No Detectable Emissions
	Closed-vent system
Sampling Connection Systems	Closed-purge system
	Closed-loop system
	Closed-vent system
	In-situ system
Open-ended valves or lines	Cap, blind flange, plug, or second valve
Valves in gas/vapor or light liquid service	Monthly LDAR/skip period quarterly
	No Detectable Emissions
	Unsafe-to-monitor
	Difficult-to-monitor
	2% rule
	Skip period annual
Valves in heavy liquid service	Monitor on evidence of leak
Pumps in heavy liquid service	Monitor on evidence of leak
Pressure relief devices in light liquid service	Monitor on evidence of leak
Pressure relief devices in heavy liquid service	Monitor on evidence of leak
Flanges and other connectors	Monitor on evidence of leak