SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN
FOR
RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY

Fruit Research and Extension Center
Cream Ridge, New Jersey

Original Date of Plan: September 2001
Date of Last Plan Amendment/P.E. Certification: June 2003; September 2004
Date of Last Plan Review: May 2008

CERTIFICATION

I hereby certify that I have examined the facility, and being familiar with the provisions of 40 CFR part 112, and have visited this facility, attest that this SPCC Plan has been prepared in accordance with good engineering practices, including consideration of applicable industry standards, and that procedures for inspection and testing have been established, and that the plan is adequate for this facility.

Engineer: ______________________________
Registration Number: ____________________
State: New Jersey
Signature: ________________________________
In accordance with the amendments to the Oil Pollution Prevention Act promulgated under the authority of the Clean Water Act, effective August 16, 2002, and codified under 40 CFR 112, a review and evaluation of this Spill Prevention Control and Countermeasure (SPCC) Plan has been conducted. This plan must be reviewed and updated every five years from the date of the implementation of this plan (February 16, 2003). As a result of this review and evaluation, Rutgers, The State University of New Jersey (Rutgers) will amend the SPCC Plan within six months of the review (August 18, 2003) to include more effective prevention and control technology if: (1) such technology will significantly reduce the likelihood of a spill event from the facility, and (2) if such technology has been field-proven at the time of review. Any amendment to the SPCC Plan shall be certified by a Professional Engineer within six months after a change in the facility design, construction, operation, or maintenance occurs which materially affects the facility’s potential for the discharge of oil into or upon the navigable waters of the United States or adjoining shorelines.

<table>
<thead>
<tr>
<th>Review Dates</th>
<th>Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
</tr>
</tbody>
</table>

**MANAGEMENT APPROVAL**

Rutgers is committed to the prevention of discharges of oil to navigable waters and the environment, and maintains the highest standards for spill prevention control and countermeasures through regular review, updating, and implementation of this SPCC Plan for the Rutgers Fruit Research and Extension Center.

Authorized Facility Representative: ____________________________

Signature: ____________________________

Title: ____________________________
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LIST OF ATTACHMENTS

Attachment A: Certification of the Applicability of the Substantial Harm Criteria (40 CFR 112.20)
Attachment B: Monthly Facility Inspection Checklist
Attachment C: Aboveground Storage Tank Inspection Report Form
Attachment D: Standard Operating Procedure - Tanker Truck Unloading
1. **FACILITY OWNER AND OPERATOR**

1.1. **Facility Owner and Address**

Rutgers, The State University of New Jersey  
Old Queens  
83 Somerset Street  
New Brunswick, NJ 08901-1281

1.2. **Facility Operator, Address and Telephone**

Fruit Research and Extension Center  
Rutgers, The State University of New Jersey  
283 Route 539  
Cream Ridge, NJ 08514  
(609) 758-7311

2. **FACILITY CONTACT(S)**

Table 1 Facility Contacts

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Cantarella</td>
<td>Research Farm Supervisor</td>
<td>(609) 758-7311</td>
</tr>
<tr>
<td>REHS Representative</td>
<td>Environmental Health and Safety Office</td>
<td>(732) 445-2550</td>
</tr>
</tbody>
</table>

3. **FACILITY DESCRIPTION**

3.1. **Facility Operations**

112.7(a)(3) *Describe in your Plan the physical layout of the facility and include a facility diagram, which must mark the location and contents of each container. The facility diagram must include completely buried tanks that are otherwise exempted from the requirements of this part under 112.7(d)(4). The facility diagram must also include all transfer stations and connecting pipes.*

The Rutgers Fruit Research and Extension Center (facility) in Cream Ridge (Monmouth County) conducts and disperses research applicable to the production of high quality trees and small fruits (Figure No. 1).

There are a total of 9 areas at the facility where oil is stored. Of these areas, 8 are aboveground storage tanks (ASTs) and 1 is drum/container storage (Figure No.2). Various types of oil products are stored including No. 2 fuel oil, diesel fuel and unleaded gasoline. The No. 2 fuel oil is used in oil-fired boilers to heat the buildings at the site. Diesel fuel is used to power motors
for irrigation and to fuel vehicles and equipment. The unleaded gasoline is used to fuel vehicles and equipment. The 55-gallon drums in the maintenance area contain motor and hydraulic oil.

These petroleum products are received by a common carrier via tanker truck. Typically, product is delivered by a 2,800-gallon tanker truck. The tanker truck pumps product into storage tanks at a maximum rate of approximately 80 gallons per minute.

The facility is generally open from 7:00 to 5:00, Monday through Friday. Rutgers personnel at the facility and at Rutgers Environmental Health and Safety can be reached at all times to respond to an incident regarding product storage areas.

3.2. Facility Oil Storage

112.7(a)(3)(i) The type of oil in each container and its storage capacity

Table No. 2 summarizes the location, size and type of oil storage areas. Appendix E contains photographs of each oil storage location.

<table>
<thead>
<tr>
<th>Building No.</th>
<th>Volume (G)</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aboveground Storage Tanks</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6177 Farm Barn No. 1</td>
<td>1,000</td>
<td>Diesel fuel</td>
</tr>
<tr>
<td>6177 Farm Barn No. 1</td>
<td>1,000</td>
<td>Unleaded Gasoline</td>
</tr>
<tr>
<td>6176 House</td>
<td>300</td>
<td>No. 2 fuel oil</td>
</tr>
<tr>
<td>6252 Packing House</td>
<td>300</td>
<td>No. 2 fuel oil</td>
</tr>
<tr>
<td>6177 Farm Barn No. 1</td>
<td>300</td>
<td>No. 2 Fuel Oil</td>
</tr>
<tr>
<td>6312 Greenhouse</td>
<td>300</td>
<td>No. 2 Fuel Oil</td>
</tr>
<tr>
<td>6317 Office and Laboratories</td>
<td>300</td>
<td>No. 2 fuel Oil</td>
</tr>
<tr>
<td>6985 Greenhouse</td>
<td>300</td>
<td>No. 2 Fuel Oil</td>
</tr>
<tr>
<td><strong>Drums/Containers</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6177 Farm Barn No. 1</td>
<td>&lt;220</td>
<td>Motor and Hydraulic Oil &amp; Used Oil</td>
</tr>
</tbody>
</table>

Total Storage 4,020

3.3. Drainage Pathways and Distance to Navigable Waters

Description of facility’s proximity to bays, rivers, streams (perennial or intermittent), creeks, ditches, flood control channels, storm drains, and other waterways. Hydrological systems are described.
The facility is located primarily to the north of Long Bog Run. Long Bog Run is a perennial stream that flows from east to west where it converges with Lahaway Creek approximately 2,000 feet downgradient of the facility. The converged creeks flow into Crosswicks Creek approximately 1,000 feet from their convergence.

The northernmost reach of Long Bog Run flows from the north to south across the eastern section of the facility. A small wetlands area buffers this reach near Route 539. The eastern reach of Long Bog Run flows across the southern section of the facility.

4. **SPILL HISTORY**

Table No. 3 indicates that no spill events have occurred at this facility.

<table>
<thead>
<tr>
<th>Location/Date /Time of Spill</th>
<th>Type &amp; Amount Spilled</th>
<th>Cause</th>
<th>Affected Watercourses</th>
<th>Damages &amp; Cost of Damages</th>
<th>Cleanup Cost</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>---------------------</td>
<td>------</td>
<td>-----------------------</td>
<td>--------------------------</td>
<td>--------------</td>
<td>------------------</td>
</tr>
</tbody>
</table>

5. **POTENTIAL SPILL PREDICTIONS**

112.7(b) Where experience indicates a reasonable potential for equipment failure (such as loading and unloading equipment, tank overflow, rupture, or leakage, or any other equipment known to be a source of a discharge), include in your Plan a prediction of the direction, rate of flow, and total quantity of oil which could be discharged from the facility as a result of each type of major equipment failure.

Table 4 summarizes the direction, rate and total quantity of oil that would be discharged at storage areas where there is a reasonable potential for equipment failure.
Table 2 Summary of Potential Spill Predictions and Prevention Measures
6. PREVENTION MEASURES PROVIDED

6.1. Summary of Spill Prevention and Control Measures

112.7(c) Provide appropriate containment and/or diversionary structures or equipment to prevent a discharge as described in 112.1(b). The entire containment system, including walls and floor, must be capable of containing oil and must be constructed so that any discharge from a primary containment system, such as a tank or pipe, will not escape the containment system before clean up occurs. At a minimum, you must use one of the following prevention systems or its equivalent: (1) for onshore facilities: (i) Dikes, berms or retaining walls sufficiently impervious to contain oil; (ii) Curbing; (iii) Culverting, gutters or other drainage systems; (iv) Weirs, booms or other barriers; (v) Spill diversion ponds; (vi) Retention ponds, or; (vii) Sorbent materials. (2) Offshore facilities: (i) Curbing, drip pans, or; (ii) Sumps and collection systems.

There is a low potential for a discharge of oil to occur and reach a navigable water course at the facility; Table 4 summarizes the spill prevention and control measures that are in-place at the facility. All ASTs are equipped with overfill protection and secondary containment and neither are located adjacent to a navigable water course.

6.2. Facility Drainage

6.2.1. Drainage from diked storage areas

112.8(b) (1) Facility drainage. Restrain drainage from diked storage areas by valves to prevent discharge into the drainage system or facility treatment system, except where facility systems are designed to control such discharge. You may empty diked areas by pumps or ejectors; however, you must manually activate these pumps or ejectors and must inspect the condition of the accumulation before starting, to ensure no oil will be discharged.

This section is not applicable to the facility since there are no diked storage areas.

6.2.2. Valves used on diked area storage

112.8(b) (2) Use valves of manual, open-and-closed design, for the drainage of diked areas. You may not use flapper-type drain valves to drain diked areas. If your facility drainage drains directly into a watercourse and not into an on-site wastewater treatment plant, you must inspect and may drain uncontaminated retained stormwater, as provided in paragraphs (c) (3)(ii), (iii), and (iv) of this section.

This section is not applicable to the facility since there are no diked storage areas.
6.2.3. Drainage systems from undiked areas

112.8(b)(3) Design facility drainage systems from undiked areas with a potential for a discharge such as where piping is located outside containment walls or where tank truck discharges may occur outside the loading area to flow into ponds, lagoons or catchment basins, designed to retain oil or return it to the facility. You must not locate catchment basins in areas subject to periodic flooding.

None of the oil storage areas at the facility are located immediately adjacent to any surface water bodies; therefore, a facility drainage system is not warranted. The entire facility is unpaved and has no storm water sewer system. Therefore, there is a low potential of a discharge from an oil storage area immediately reaching a navigable water course.

Therefore, in the event of a spill, Rutgers will take immediate action to remediate the affected area. Rutgers maintains spill control equipment at the facility (see Section 6.9) and has a contract with a local emergency response contractor. The contractor would be contacted immediately following the discovery of the spill to conduct remediation.

6.2.4. Final discharge of drainage

112.8(b) (4) If facility drainage is not engineered as in paragraph (b)(3), of this section, equip the final discharge of all ditches inside the facility a diversion system that would, in the event of an uncontrolled discharge, retain oil in the facility.

As discussed in Section 6.2.3, there is no facility drainage system.

6.2.5. Facility Drainage Systems and Equipment

112.8(b)(5) Where drainage waters are treated in more than one treatment unit and such treatment is continuous, and pump transfer is needed, provide two ‘‘lift’’ pumps and permanently install at least one of these pumps. Whatever techniques are used, you must engineer facility drainage systems to prevent a discharge as described in paragraph 112.1(b) in case there is an equipment failure or human error at the facility.

As discussed in Section 6.2.3, there is no facility drainage system.

6.3. Bulk Storage Tanks and Secondary Containment

6.3.1. Tank compatibility with its contents

112.8(c) (1) Bulk storage containers. Not use a container for the storage of oil unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature.

The material and construction of all ASTs is compatible with both type of oil and the conditions of oil storage as summarized in Table 5.
Table 3  Summary of AST Compatibility with Contents

<table>
<thead>
<tr>
<th>Building No.</th>
<th>Size &amp; Type</th>
<th>Construction</th>
<th>Date Installed</th>
<th>Contents</th>
<th>Contents Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>6177</td>
<td>1,000-G AST</td>
<td>Steel</td>
<td>1996</td>
<td>Diesel Fuel</td>
<td>Yes</td>
</tr>
<tr>
<td>6177</td>
<td>1,000-G AST</td>
<td>Steel</td>
<td>1996</td>
<td>Unleaded Gasoline</td>
<td>Yes</td>
</tr>
<tr>
<td>6177</td>
<td>300-G AST</td>
<td>Steel</td>
<td>2003</td>
<td>No. 2 Fuel Oil</td>
<td>Yes</td>
</tr>
<tr>
<td>6312</td>
<td>300-G AST</td>
<td>Steel</td>
<td>2003</td>
<td>No. 2 Fuel Oil</td>
<td>Yes</td>
</tr>
<tr>
<td>6317</td>
<td>300-G AST</td>
<td>Steel</td>
<td>2003</td>
<td>No. 2 Fuel Oil</td>
<td>Yes</td>
</tr>
<tr>
<td>6176</td>
<td>300-G AST</td>
<td>Steel</td>
<td>2003</td>
<td>No. 2 Fuel Oil</td>
<td>Yes</td>
</tr>
<tr>
<td>6252</td>
<td>300-G AST</td>
<td>Steel</td>
<td>2003</td>
<td>No. 2 Fuel Oil</td>
<td>Yes</td>
</tr>
<tr>
<td>6985</td>
<td>300-G AST</td>
<td>Steel</td>
<td>2003</td>
<td>No. 2 Fuel Oil</td>
<td>Yes</td>
</tr>
</tbody>
</table>

6.3.2. Diked area construction and containment volume for storage tanks

112.8(c)(2) Construct all bulk storage tank installations so that you provide a secondary means of containment for the entire contents of the largest single tank plus sufficient freeboard to allow for precipitation. You must ensure diked areas are sufficiently impervious to contain discharges of oil. Dikes, containment curbs, and pits are commonly employed for this purpose. You may use an alternative system consisting of a drainage trench enclosure that must be arranged so that a discharge will be safely confined in an in-facility catchment basin or holding pond.

Secondary containment is provided for all ASTs at the facility. Secondary containment consists of a ConVault® storage tank or a double walled aboveground steel tank. ConVault® steel tanks are made of 1/8" or 3/16" thick steel. The steel tank contains and holds the liquid fuel, which is the primary function of the tank. The second stage of manufacturing consists of wrapping the steel tank with a minimum of 1/4" thick Styrofoam (foam) insulation and an impervious barrier of 30 Mil high density polyethylene membrane. The 30 Mil membrane provides containment in the event of a fuel leak. A leak detector pipe is installed in the secondary containment to evaluate if a leak has occurred. The tank is also encased in a six-inch thick reinforced concrete.
vault. The aboveground steel tanks at Buildings 6176, 6252, 6177, 6312, 6317 and 6985 are constructed of two sheets of steel with an interstitial space.

6.3.3. **Diked area, inspection and drainage of rainwater**

112.8(c)(3) Not allow drainage of uncontaminated rainwater from the diked area into a storm drain or discharge of an effluent into an open water course, lake, or pond, or bypassing the treatment facility system unless you:
(i) Normally keep the bypass valve sealed closed.
(ii) Inspect the retained rainwater to ensure its presence will not cause a discharge as described in paragraph 112.1(b).
(iii) Open the bypass valve and reseal it following drainage under responsible supervision.
(iv) Keep adequate records of such events, for example, any records required under permits issued in accordance with paragraph 122.41(j)(2) and 122.41(m)(3) of this chapter.

This section is not applicable to this facility since there are no diked areas.

6.3.4. **Corrosion protection of buried metallic storage tanks**

112.8(c)(4) Protect any completely buried metallic storage tanks installed after January 10, 1974 from corrosion by coatings or cathodic protection compatible with local soil conditions. You must regularly leak test such completely buried metallic storage tanks.

This section is not applicable, there are no USTs.

6.3.5. **Corrosion protection of partially buried metallic tanks**

112.8(c)(5) Not use partially buried metallic tanks for the storage of oil, unless you protect the buried section of the tank from corrosion. You must protect the partially buried and bunkered tanks from corrosion by coatings or cathodic protection compatible with local soil conditions

This section is not applicable to the facility since there are no partially buried tanks.

6.3.6. **Aboveground tank periodic integrity testing**

112.8(c)(6) Test each aboveground container for integrity on a regular schedule, and whenever you make material repair. The frequency of and type of testing must take into account container size and design (such as floating roof, skid mounted, elevated, or partially buried). You must combine visual inspection with another testing technique such as hydrostatic testing, radiographic testing, ultrasonic testing, acoustical emissions testing, or another system of non-destructive shell testing. You must keep comparison records and you must also inspect the container’s supports and foundations. In addition, you must frequently inspect the outside of the container for signs of deterioration, discharges, or accumulation of oil inside diked areas. Records of inspections and test
kept under usual and customary business practices will suffice for purposes of this paragraph.

ASTs are constantly observed by Rutgers personnel during operating hours. Formal inspections are conducted monthly to examine the exterior of the ASTs and the containment areas.

6.3.7. **Control of leakage through internal heating coils**

112.87(c)(7) Control leakage through defective internal heating coils by monitoring the steam return and exhaust lines for contamination from internal heating coils that discharge into an open watercourse, or pass the steam return or exhaust lines through a settling tank, skimmer, or other separation or retention system.

This section is not applicable to the facility since none of the bulk storage tanks are equipped with internal heating coils.

6.3.8 **Tank installation fail-safe engineered**

112.8(c)(8) Engineer or update each container installation in accordance with good engineering practice to avoid discharges. You must provide at least one of the following devices:

(i) High liquid level alarms with an audible or visual signal at a constantly attended operation or surveillance station. In smaller facilities an audible air vent may suffice.

(ii) High liquid level pump cutoff devices set to stop flow at a predetermined container content level.

(iii) Direct audible or code signal communication between the tank gauger and the pumping station.

(iv) A fast response system for determining the liquid level of each bulk storage container such as digital computers, telepulse, or direct vision gauges. If you use this alternative, a person must be present to monitor gauges and the overall filling of bulk storage containers.

(v) You must regularly test liquid level sensing devices to ensure proper operation.

A fail-safe engineering system is employed for all tanks at the facility. Tanker trucks are positioned immediately adjacent to tanks during unloading. The position of the tanker truck allows the operator to observe the tank from tanker truck controls. In the event of a hose rupture or an overfill, the tanker truck operator can respond quickly to shut off the tanker truck pump.

Additionally, tanker trucks utilize an electronic metering system that is programmed to deliver a set quantity of fuel to the tank. When that amount is reached, the pump for the tanker truck is automatically shut off.

6.3.9 **Observation of disposal facilities for effluent discharge**

112.8(c)(9) Observe effluent treatment facilities frequently enough to detect possible system upsets that could cause a discharge as described in paragraph 112.1(b).

This section is not applicable to the facility since there are no disposal facilities.
6.3.10 Visible oil leak corrections from tank seams and gaskets

112.8(c)(10) Promptly correct visible oil leaks which result in a loss of oil from the container, including but not limited to seams, gaskets, piping, pumps, valves, and bolts. You must promptly remove any accumulations of oil in diked areas.

Visible oil leaks are reported to the Research Farm Supervisor (see Section 2). Subsequent to reporting, a work order is written and the tank is repaired prior to being reused.

6.3.11 Appropriate position of mobile or portable oil storage tanks

112.8(c)(11) Position or locate mobile or portable oil storage containers to prevent a discharge as described in paragraph 112.1(b). You must furnish secondary means of containment, such as dikes or catchment basins, should be furnished as secondary means of containment, sufficient to contain the capacity of the largest single compartment or container with sufficient freeboard to contain precipitation.

This section is not applicable to this facility since there are no mobile or portable oil storage tanks.

6.4 Bulk Storage Piping

6.4.1 Underground Piping

112.8(d)(1) Provide buried piping that is installed after August 16, 2002 with a protective wrapping and coating. You must also cathodically protect such buried piping installations or otherwise satisfy the corrosion protection standards for piping in part 280 of this chapter or a state program approved under part 281 of this chapter. If a section of buried line is exposed for any reason, it should be carefully inspect it for deterioration. If you find corrosion damage, you must undertake, additional examination and corrective action as indicated by the magnitude of the damage.

This section is not applicable.

6.4.2 Provisions for piping not in service

112.8(d)(2) Cap or blank flange the terminal connection at the transfer point and mark it as to origin when piping is not in service for an extended period of time.

When aboveground piping at the storage tanks is not in use, the terminal connection at the transfer point, where applicable, is capped. All aboveground piping is labeled with product content, origin and direction of flow.
6.4.3 **Aboveground Piping Support**

112.8(d)(3) properly design pipe supports to minimize abrasion and corrosion and allow for expansion and contraction.

All aboveground piping is properly supported. The aboveground piping at both ASTs is supported by the tank system and fuel dispenser.

6.4.4 **Aboveground valve and pipeline examination**

112.8(d)(4) Regularly inspect all aboveground valves, piping and appurtenances. During the inspection you must assess the general conditions of items, such as flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces. You must conduct integrity and leak testing of buried metal piping at the time of installation, construction, relocation, or replacement.

Aboveground piping and valves are inspected at the time facility inspections are conducted on a monthly basis. Records of these inspections are documented and signed by the inspector.

6.4.5 **Aboveground piping protection from vehicular traffic**

112.8(b)(5) Warn all vehicles entering the facility to be sure that no vehicle will endanger aboveground piping or other oil transfer operations.

All aboveground piping is protected from vehicular traffic. The aboveground piping at ASTs situated atop the AST and dispenser. The entire AST system is protected with concrete bollards.

6.5 **Facility Truck Unloading**

6.5.1 **Unloading procedures meet DOT regulations**

Rutgers requires all drivers to comply with DOT regulations in 49 CFR part 177 and a facility standard operating procedure (see Attachment D).

6.5.2 **Secondary containment for tanker trucks**

112.7(h)(1) Facility tank car and tank truck loading/unloading rack (excluding offshore facilities). Where loading/unloading area drainage does not flow into a catchment basin or treatment facility designed to handle discharges, use a quick drainage system for tank truck loading and unloading areas. You must design a containment system to hold at least the maximum capacity of any single compartment of a tank car or tank truck loaded or unloaded at the facility.

All tanker truck unloading areas associated with storage tanks are undiked. However, there are no areas where there is a reasonable potential for a discharge to occur from the tanker truck and immediately affect a navigable water course. Therefore, Rutgers maintains spill control equipment at the facility (see Section 6.9) and has a contract with a local emergency response
contractor so that immediate action can be taken in the event of a discharge. The emergency response contractor would be contacted immediately following the discovery of a discharge to conduct remediation.

6.5.3 Warning or barrier system for vehicles

112.7(h)(2) Provide an interlocked warning light or physical barrier system, warning signs, wheel chocks, or vehicle break interlock system in loading/unloading areas to prevent vehicles from departing before complete disconnection of flexible or fixed transfer lines.

Warning signs are posted in the unloading areas for the tanks to prevent vehicular departure before disconnecting flexible or fixed transfer lines.

6.5.4 Vehicles examined for lowermost drainage outlets before leaving

112.7(h)(3) Prior to filling and departure of any tank car or tank truck closely inspect for discharges the lowermost drain and all outlets of such vehicles, if necessary, ensure that they are tightened, adjusted, or replaced to prevent liquid discharge while in transit.

Warning signs are posted in all the unloading areas to remind drivers to examine drain outlets prior to departure.

6.6 Inspections and Recordkeeping

112.7(e) Conduct inspections and test required of this part in accordance with written procedures that you or the certifying engineer develop for the facility. You must keep these written procedures and a record of the inspections and tests, signed by the appropriate supervisor or inspector, with the SPCC Plan for a period of three years. Records of inspections and tests kept under usual and customary business practices will suffice for purposes of this paragraph.

Facility inspection procedures:

Formal facility inspections are conducted monthly and records of these inspections are documented and signed by the inspector. During the monthly inspections, all unloading areas, containment structures, valves, pipelines, and other equipment are inspected.

Length of time records kept:

Inspection, training, and tank integrity testing records are retained for at least three years.
6.7 Site Security

6.7.1 Fencing

112.7(g)(1) Fully fence each facility handling, processing, and storing oil and lock and/or guard entrance gates the facility is not in production or is unattended.

Fencing is provided around the entire facility.

6.7.2 Flow valves locked

112.7(g)(2) Security. Ensure the master flow and drain valves and any other valves permitting direct outward flow of the container’s contents to the surface have adequate securely measures so that they remain in the closed position when in non-operating or non-standby status.

The only tanks where an appurtenance could be opened to allow the contents to flow outward are at the ASTS. Piping at these tanks is connected to a fuel dispenser. The fuel dispensers are secured with a lock.

6.7.3 Starter controls locked

112.7(g)(3) Lock the starter control on each oil pump in the ‘off” position and locate it at a site accessible only to authorized personnel when the pumps are in a non-operating or non-standby status.

Starter controls for pumps associated with boilers and other heating equipment are located inside buildings accessible only to authorized Rutgers personnel. Starter controls for fuel dispensers which service the ASTs are secured with locks.

6.7.4 Fill piping connections securely capped

112.7(g)(4) Securely cap or blank flange the loading/unloading connections of oil pipelines or facility piping when not in service or standby service.

All fill piping connections are securely capped when they are not in use and blank-flanged when they are in standby service for an extended time.

6.7.5 Lighting adequate to detect spills

112.7(g)(5) Provide facility lighting commensurate with the type and location of the facility that will assist in the:
(i) Discovery of discharges occurring during hours of darkness, both by operating personnel, if present, and by nonoperating personnel (the general public, local police, etc.) and
(ii) Prevention of spills occurring through acts of vandalism.
There is no lighting to illuminate the individual storage tank areas. However, there is lighting to illuminate the facility and deter acts of vandalism.

6.8 Personnel Training and Spill Prevention Procedures

6.8.1 Personnel instructions

112.7(f)(1) Personnel, training and discharge prevention procedures. At a minimum, train your oil handling personnel in the operation and maintenance of equipment to prevent the discharges; discharge procedure protocols; applicable pollution control laws, rules and regulations; general facility operations; and, the contents of the SPCC Plan.

Any oil handling personnel responsible for implementing the provisions of this SPCC Plan are required to have spill prevention training which includes a complete review of Rutgers' SPCC Plan. Rutgers conducts yearly training to ensure that these personnel are familiar with the SPCC Plan and the measures to be implemented in the event of a discharge.

6.8.2 Designated person accountable for spill prevention

112.7(f)(2) Designate a person at each applicable facility who is accountable for oil spill prevention and who reports to facility management.

The Director of Farm Activities is the designated person accountable for spill prevention at this facility.

6.8.3 Spill prevention briefings

112.7(f)(3) Schedule and conduct discharge prevention briefings for your oil-handling personnel at least once a year to assure adequate understanding of the SPCC Plan for that facility. Such briefings must highlight and describe known discharges in paragraph 112.1(b) or failures, malfunctioning components, and recently developed precautionary measures.

During yearly safety briefings, spill prevention is discussed. Any incidents are discussed in these briefings in order to prevent them from recurring. Employee feedback and recommendations are encouraged in spill prevention and operation.

6.9 Spill Control Equipment

Spill control equipment stored at or near the oil storage areas includes absorbent pads and booms, oil-absorbent clay, empty drums, brooms and shovels.

6.10 Emergency Contacts

Part 110-Discharge of Oil: 110.10 Notice. Any person in charge of a vessel or of an onshore or offshore facility shall, as soon as he or she has knowledge of any discharge of
oil from such vessel or facility in violation of §110.6, immediately notify the National Response Center (NRC) (800-424-8802; in the Washington, DC metropolitan area, 426-2675). If direct reporting to the NRC is not practicable, reports may be made to the Coast Guard or EPA predesignated On-Scene Coordinator (OSC) for the geographic area where the discharge occurs. All such reports shall be promptly relayed to the NRC. If it is not possible to notify the NRC or the predesignated OCS immediately, reports may be made immediately to the nearest Coast Guard unit, provided that the person in charge of the vessel or onshore or offshore facility notifies the NRC as soon as possible. The reports shall be made in accordance with such procedures as the Secretary of Transportation may prescribe. The procedures for such notice are set forth in U.S. Coast Guard regulations, 33 CFR part 153, subpart B and in the National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR part 300, subpart E. (Approved by the Office of Management and Budget under the control number 2050-0046).

In the event of discharge, the person who is at the scene shall first contact the Research Farm Supervisor. The Research Farm Supervisor shall then contact REHS and Emergency Personnel, as necessary. Table No. 6 lists the emergency contacts.

### Table 4  Emergency Contacts

<table>
<thead>
<tr>
<th>Name/Organization</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Cantarella, Research Farm Supervisor</td>
<td>(609) 758-7311</td>
</tr>
<tr>
<td>Federal National Response Center</td>
<td>(800) 424-8802</td>
</tr>
<tr>
<td>NJDEP Spill Hotline</td>
<td>(877) WARN DEP</td>
</tr>
<tr>
<td>Upper Freehold Township Board of Health</td>
<td>(609) 758-7738</td>
</tr>
<tr>
<td>Upper Freehold Township Fire Department</td>
<td>9-1-1</td>
</tr>
<tr>
<td>Rutgers Environmental Health and Safety (REHS)</td>
<td>(732) 445-2550</td>
</tr>
</tbody>
</table>
ATTACHMENT A

Certification of the Applicability
of the Substantial Harm Criteria
(40 CFR 112.20)
Certification of the Applicability of the Substantial Harm Criteria (40 CFR 112.20)

1. Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?
   
   Yes ___  No X 

2. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?
   
   Yes ___  No X 

3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?
   
   Yes ___  No X 

4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility would shut down a public water intake?
   
   Yes ___  No X 

5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?
   
   Yes ___  No X 

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Signature: 

Name: 

Title: 

Date: 

SPCC Plan
Fruit Research and Extension Center
Rutgers, The State University of NJ

May 2008
ATTACHMENT B

Monthly Facility Inspection Checklist
MONTHLY FACILITY INSPECTION CHECKLIST

Date: _____________________________________________________
Time: _____________________________________________________
Inspector: __________________________________________________

X=Satisfactory  NA=Not Applicable  0=Repair or Adjustment Required  C= Comment under Remarks/Recommendations

Drainage

____ Any noticeable oil sheen on runoff.
____ Containment area drainage valves are closed and locked.
____ Oil/water separator systems working properly.
____ Effluent from oil/water separator inspected.
____ No visible oil sheen in containment area.
____ No standing water in containment area.
____ Valves, flanges, and gaskets are free from leaks.
____ Containment walls are intact.

ASTs

____ Tank surfaces checked for signs of leakage.
____ Tank condition good (no rusting, corrosion, pitting).
____ Bolts, rivets, or seams are not damaged.
____ Tank foundation intact.
____ Level gauges and alarms working properly.
____ Vents are not obstructed.

Pipelines

____ No signs of corrosion damage to pipelines or supports.
____ Buried pipelines are not exposed.
____ Out-of-service pipes capped.
____ Signs/barriers to protect pipelines from vehicles are in place.
____ No leaks at valves, flanged, or other fittings.
____ Containment curbing or trenches intact.
____ Connections are capped or blank-flanged.

Truck Loading/Unloading Area

____ No standing water in rack area.
____ Warning signs posted.
____ No leaks in hoses.
____ Drip pans not overflowing.
____ Catch basins free of contamination.

Drums/Containers & Oil filled Equipment

____ Containers condition good (i.e. no bulging, no leaks)
____ Containers properly identified
____ Containers properly closed
____ Proper containment
____ Containment free of liquid (i.e. rain/product)
____ Transformers condition good (i.e. no leaks)

Remarks/Recommendations:

---
ATTACHMENT C

Aboveground Storage Tank
Inspection Report Form
AST INSPECTION REPORT

Date: 
Location Liquid Level: 
Tank No.Temp.: 
Capacity Diameter Height: 

1. Weather Stripping or Flashing

a. Are all pieces tight against shell?

b. Are any pieces missing or (Photo No.) require repairs? 
   How many?

2. Hoses & Piping

a. General appearance of hoses

b. Any leaks? If so, explain

c. Aboveground piping free of leaks?

3. Roof Ladder

a. Does ladder appear to roll easily or need repairs?

4. Contamination

a. Is roof free of oil and water? If not, indicate percent coverage of each liquid and depth at worst location on attached drawing.
5. Corrosion Control

a. Note general appearance of paint on shell, roof, ladder and structural members:

b. Is rusting or pitting occurring on any of the above?
If yes, explain where and if repairs are needed immediately.

c. Are all insulating flange washers and sleeves in place?
If missing, cracked, or broken, explain where and repairs needed:

d. Are all ground and/or anode straps in place?
If missing or damaged, indicate location on drawing and explain repairs needed:

6. Are high-level alarms functioning properly? Tested to verify?

7. Other Observations

a. Note anything that might affect smooth movement of roof and any problem that would allow escape of vapors or air pollution:

8. Show any damaged areas or problem areas (on tanks with floating roof, show location and size of any gaps in seal) on attached drawing.

9. Remote and side gauges working
ATTACHMENT D

Standard Operating Procedure
Tanker Truck Unloading