### **Permit Documents**





QATESTOCR

	Document Title	NSHI SPCCPPart 1					
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released
	Document Owner	1	Clark, Michael			and the second se	

# SPILL PREVENTION, CONTROL AND COUNTERMEASURES (SPCC) PLAN part 1 of 3

Yhm ~

NATURAL SODA HOLDINGS, INC. (NSHI)

#### RECEIVED

MAN 03 2014

DIVISION OF RECLAMATION 98

Completed by: MICHAEL CLARK Completed Date: 08/06/2013

HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

	Document Title		NSHI SPCCPPart 1					
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released	
	Document Owner		Clark, Michael					

#### Spill Prevention, Control and Countermeasure (SPCC) Plan

#### I. General SPCC Plan Requirements.

#### I.A. General Company Policy.

#### I.A.1. Purpose.

The purpose of this program is to inform interested persons, including employees, that our facility, the Natural Soda Holdings, Inc. (NSHI), Oil Shale Reactor (OSR), located at 3200 County Road 31, Rifle, CO, 81650, complies with EPA requirements for preparing, implementing, and maintaining a Spill Prevention Control and Countermeasure (SPCC) Plan under the Oil Pollution Prevention regulations, Title 40 Code of Federal Regulations (CFR) Part 112, by providing a written plan that describes the equipment, manpower, procedures, and adequate countermeasures for preventing and controlling oil discharges.

The evolution of hydrocarbon fluids from the OSR will not be similar to conventional oil and gas operations. This is an operation designed to demonstrate a process only, and not provide continuous production. Hydrocarbon fluids in the OSR will accumulate slowly as an underground heating process slowly converts in-situ solid organic matter to fluid hydrocarbons. Evolved hydrocarbon fluids will then be pumped from the underground OSR to surface facilities on a non-continuous as-needed basis. The entire operation is expected to produce on the order of 5,000 gallons, total, of fluid hydrocarbon.

#### *I.A.2.* Applicability (§112.1(b) and §112.1(d)(2)).

This plan will apply to our facility because:

- We will have a non-transportation related facility engaged in pilot plant research, development and demonstration of extraction of hydrocarbons from oil shale ;
- Due to our facility location, our facility could be reasonably expected to discharge oil in quantities that may be harmful, as described in 40 CFR 110, into or upon the navigable waters of the HARD COPIES ARE NOT CONTROLLED REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

<b>A</b>	Document Title		NSHI SPCCPPart 1						
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released		
	Document Owner		Clark, Michael						

U.S. or adjoining shorelines; and

• Our facility will have an aggregate aboveground storage capacity greater than 1,320 gallons.

#### I.A.3. Responsibilities and Plan Location (§112.3(e)).

NSHI, the facility owner and operator, is responsible for this plan and for making sure that the plan is available to the EPA Regional Administrator for onsite review during normal working hours. Copies of the written plan will be located in the Office of Business Support and Sustainability Manager, Michael Clark, at 3200 County Road 31, Rifle CO, who is available by calling 970-878-3674, extension 25. NSHI is responsible for developing and maintaining the plan.

The facility owner name, address, and telephone is as follows:

NSHI, 3200 County Road 31, Rifle, CO, 81650, 970-878-3674, attention Michael Clark

The facility operator name, address, and telephone is as follows:

NSHI, 3200 County Road 31, Rifle, CO, 81560, 970-878-3674, attention Michael Clark

Contact	SPCC Plan Role	Title:	Telephone number:	Address:
Michael Clark	Emergency Response Coordinator-ERC	Business Support and Sustainability Mgr	970-878-3674, x25	3200 County Road 31, Rifle, CO 81652
Robert Warneke	ERC Backup #1	V.P. Operations	970-878-3674, x14	3200 County Road 31, Rifle, CO 81652
Eric Simms	ERC Backup #2	Technical Manager	970-878-3674, x13	3200 County Road 31, Rifle, CO 81652
Carl Meyer	ERC Backup #3	Production Supervisor	970-878-3674, x37	3200 County Road 31, Rifle, CO 81652

Facility contacts include the following:

A	Document Title		NSHI SPCCPPart 1					
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released	
	Document Owner		Clark, Michael					

#### *I.A.4. Plan Certification* (§§112.3(*d*) and 112.5(*c*)).

The undersigned Registered Professional Engineer is familiar with the requirements of 40 CFR 112 and has visited and examined the facility, or has supervised examination of the facility by appropriately qualified personnel. The undersigned Registered Professional Engineer attests that:

•This SPCC Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards and the requirements of 40 CFR 112;

•Procedures for required inspections and testing have been established;

•This plan is adequate for the facility;

This certification in no way relieves the owner or operator of the facility of his/her duty to prepare and fully implement this SPCC Plan in accordance with the requirements of 40 CFR 112. This plan is valid only to the extent that the facility owner or operator maintains, tests, and inspects equipment, containment, and other devices as prescribed in this plan.

Shall R. h.

Signature:

Professional engineer registration number:

Name: Edward R. White, P.E.

Title: Project Engineer

Company: CTL-Thompson, Inc.

Date: August 27, 2013

Professional engineer's seal (provide seal here):



A	Document Title		NSHI SPCCPPart 1					
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released	
	Document Owner		Clark, Michael					

#### I.A.5. Plan Review, Evaluation, and Verification (§112.5).

The owner and operator will amend this SPCC Plan in accordance with Section 112.7, and other applicable Sections of Part 112, when there is a change in the facility design, construction, operation, or maintenance that materially affects its potential for a discharge. The amendment will be prepared within six months of the change. Examples of changes that may require amendment to the Plan include, but are not limited to:

- Commissioning or decommissioning containers;
- Replacement, reconstruction, or movement of containers;
- Reconstruction, replacement, or installation of piping systems;
- Construction or demolition that might alter secondary containment structures;
- Changes of product or service; or
- Revision of standard operation or maintenance procedures at the facility.

Amendments to the plan made to address changes of this nature are referred to as "technical amendments," and must be certified by a professional engineer. "Non- technical amendments" can be done (and must be documented) by the facility owner and operator. Non-technical amendments include the following:

- Change in the name or contact information (i.e., telephone numbers) of individuals responsible for the implementation of this plan; or
- Change in the name or contact information of spill response or cleanup contractors.

The facility will make the needed revisions to the SPCC Plan as soon as possible, but no later than six months after the change occurs. The plan will be implemented as soon as possible following any technical amendment, but no later than six months from the date of the amendment. NSHI is responsible for initiating and coordinating revisions to the SPCC Plan.

NSHI will review this Plan at least every five years from the date the facility becomes subject to 40 CFR 112 and five years from the date of the last review. Amendments will be prepared within six months of the HARD COPIES ARE NOT CONTROLLED REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

$\land$	Document Title	NSHI SPCCPPart 1					
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released
	Document Owner		Clark, Michael				

review. As described above, any technical amendments to our SPCC Plan are certified by a professional engineer. See section I.A.4. for certification.

Both the scheduled reviews and technical and non-technical amendments described above will be recorded and found in the Appendices to this plan. This record will be completed even if no amendment is made to the plan as a result of the review.

#### I.A.6. Worker Attendance (§112.3(e)).

Our facility will normally be attended by workers at least four hours per day. Therefore, a complete copy of the plan will be maintained at the facility. See section I.A.3.

#### I.A.7. Plan Suggestions.

We encourage any suggestions that our employees, plan reviewers, professional engineers, EPA, or state agencies have for improving our written SPCC Plan, as we are committed to developing and maintaining an effective plan. We strive for clear understanding, environmentally-minded behavior, and involvement in the plan from every level of the company.

#### I.A.8. Management Approval (§112.7).

We are committed to the prevention of discharges of oil to navigable waters and the environment and to maintaining the highest standards for spill prevention, control, and countermeasure through the implementation and regular review and amendment to this plan. This plan has the full approval of management at a level of authority to commit the necessary resources to fully implement it.

The authorized facility representative below is our designated person accountable for oil spill prevention at the facility and has the authority to commit the necessary resources to implement this plan.

Authorized Facility Representative: Michael Clark HARD COPIES ARE NOT CONTROLLED REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

A	Document Title		NSHI SPCCPPart 1					
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released	
	Document Owner		Clark, Michael			<u> </u>		

Title: Business Support and Sustainability Manager

Middlel, Date: August 28, 2013 Signature:

*I.A.9.* Not Yet Operational Facilities, Procedures, Methods, and Equipment (§112.7).

If this SPCC Plan calls for additional facilities, procedures, methods, or equipment not yet fully operational, we discuss these items, as necessary, in separate paragraphs throughout this SPCC Plan and explain separately the details of installation and operational start-up. This facility has not yet been constructed at this time. Equipment, methods and procedures discussed herein are representative of current plans. If there are technical changes to current plans prior to construction, this plan will be subject to review, amendment and recertification prior to construction. This plan will be amended and recertified within 6 months of completion of facility construction and commencement of operations.

### I.B. Discussion of Facility's Conformance with 40 CFR 112.7 (§§112.7, 112.8(a), 112.9(a), 112.10(a), 112.11(a), and 112.12(a)).

NSHI's OSR will conform with applicable SPCC regulations by fully developing and implementing this Spill Prevention Control and Countermeasures Plan.

#### I.C. Facility Location and Layout/Diagram (§112.7(a)(3)).

NSHI proposes to demonstrate proprietary non-traditional oil-and-gas industry technology suitable for economic production of liquid hydrocarbons from oil shale.

The proposed operation will be an oil shale research, development and demonstration project that has been permitted as such by the US Bureau of Land Management. The well in which the OSR is to be located will be first drilled by a contractor, following the same practices currently used to drill nacholite (baking soda) production wells, and operated by solution mining

A	Document Title		NSHI SPCCPPart 1					
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released	
	Document Owner Clark, Michael							

processes for the production of nacholite by adjacent facilities operated by Natural Soda company under BLM sodium lease no. C-0118326. After sufficient nacholite is withdrawn, solution mining apparatus will be withdrawn from the well and replaced with OSR equipment. Because of the nature of the nacholite drilling process, it is not anticipated that the drilling operation will be subject to the requirements of 40 CFR 112.10.

The attached "Utility Map" illustrates the project's ground plan. A natural gas line is proposed to tap into the existing gas main line and provide natural gas to fuel down-hole heating operations. Oil storage facilities pertinent to this SPCC Plan are located within the area denoted as "OSR Well Pad". Centralized processing equipment is located within the OSR Well Pad.

The "Surface Facilities Layout" illustrates arrangement of the processing equipment. Hydrocarbons evolved from the OSR (Oil Shale Reactor) Well will be separated from co-produced gas and water and transferred through suitable pipe to a 5,000 gallon oil storage tank. Produced water will be transferred to a 1,000 gallon waste tank through suitable above-ground pipe. Stage 1 produced water and liquid hydrocarbons evolved from the gas scrubber will be transferred to a 10,000 gallon scrubber tank. Produced water from the scrubber tank will be transferred to the produced-water tank. All three tanks will be protected by secondary containment. Secondary containment will consist of low-permeability materials and have capacity to hold the volume of the largest tank plus sufficient freeboard for precipitation.

The table below includes a complete list of all oil storage containers with a capacity of 55 U.S. gallons or more, unless otherwise exempt from Part 112.

A	Document Title		NSHI SPCCPPart 1					
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released	
	Document Owner		Clark, Michael					

The type of oil in each container and its storage capacity is listed in the table below:

Container type and age:	Type of oil stored and storage capacity:	Descripti on of discharge	Container location:
HotOilExpansion Tank (V-008), new	Heat transfer fluid, 1,000 gal	Gate valve and blank-offcap	refer to Surface Facilities Layout diagram
Hot Oil Catch Tank (V- 009), new	Heat transfer fluid, 500 gal	Gate valve and blank-offcap	refer to Surface Facilities Layout diagram
Gas/Liquid Separator (V-002), new	Hydrogenandnitrogen with hydrocarbons, 30 gal	Gate valve and blank-offcap	refer to Surface Facilities Layout diagram
Overheads Gas / Oil / Water Separator (V- 003), new	Sour hydrocarbons with hydrogen chloride and water, 100 gal	Gate valve and blank-offcap	refer to Surface Facilities Layout diagram
Bottoms Gas / Oil / Water Separator (V- 004), new	Sour hydrocarbons with hydrogen chloride and water, 100 gal	Gate valve and blank-offcap	refer to Surface Facilities Layout diagram
Hydrocarbon Storage Tank (V- 005), new	Sour hydrocarbons with traces of HCL, 5,000 gal	Gate valve and blank-offcap	refer to Surface Facilities Layout diagram
Produced Water Storage Tank (V- 006), new	Processed produced water with sodium hydroxide, sodium sulfate, and sodium carbonate, 1,000 gal	Gate valve and blank-offcap	refer to Surface Facilities Layout diagram
Waste Seal Tank (V- 007), new	Processed produced water with trace amounts of ammonia, 50 gal nominal, 75 gal capacity	Gate valve and blank-offcap	refer to Surface Facilities Layout diagram
Oil Totes	Temporary storage of up to 5 265- gallon totes. To be disposed by Clean Harbors. Total storage is 1,325 gallons	6" diameter top opening with screw cap	refer to Surface Facilities Layout diagram
Drums of Oil	Temporary storage of up to 42 55- gallon drums. Oil to be put into heat transfer system. Total storage is up to 2,310 gallons. Bulk will be put into the heat transfer system for duration of the project.	3" diameter top opening with re- sealable cap	refer to Surface Facilities Layout diagram

A	Document Title			NSHI SP	CCPPart 1			
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released	
	Document Owner	Ī	Clark, Michael					

Our discharge prevention measures including procedures for routine handling of products (loading, unloading, and facility transfers, etc.) are as follows:

Oil handling at the facility involves the loading, unloading, and transfer of oil in quantities and container sizes that range from less than 55 gallons up to several thousand gallons. Procedures are developed for oil handling operations that are designed to prevent releases.

Fluid Transfer Associated with Facility Processing

- Fluid movement from the wellhead to points down the process stream is to be driven by a down-hole pump. Fluids will consist of a mixture of gas, hydrocarbons and produced water.
- Fluid transfer from the wellhead to downstream processes will not be continuous.
- Down-stream processes include separation of gas, water and hydrocarbon phases, storage of water and hydrocarbon phases, and transfer of water and hydrocarbon phases away from the facility.
- Should transfer lines fail, flow will be discontinued by shutting off the down hole pump, minimizing the amount of fluids not contained within lines and minimizing potential spill of fluids.
- Fluid transfer and associated processes are protected entirely by secondary containment from the wellhead to final discharge of water and hydrocarbons into tank trucks for transport off site. Secondary containment is sized to accommodate loss from the largest vessel plus sufficient free-board to allow for potential precipitation.

Drum and Tote Handling

• Only approved drums (tight head with bung caps installed or open top with properly secured lids and rings) or properly sealed totes are to be used during internal transfer of oil. HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

A	Document Title		NSHI SPCCPPart 1						
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released		
	Document Owner		Clark, Michael						

- Oil drums and totes containing liquid will be stored only in designated areas equipped with necessary secondary containment.
- Container caps and lids will be secured in place during transport of containers within the facility. All containers will be properly labeled.
- Dispensing activities will occur only within secondary containment of the systems being serviced.
- Transfer lines will be securely connected and inspected against leaks and damage before, during, and after transfer operations.
- Spill containment equipment and materials (such as absorbent pads, containment booms, etc.) will be maintained in close proximity to oil containment vessels.
- Damaged (corroded, cracked, non-sealing, etc.) drums or totes will not be used.
- All spills are to be contained, reported, and immediately cleaned up.
- Out-of-service drums and totes will be emptied and stored within secondary containment until properly retrieved and removed by supplier for recycle.

#### Bulk Loading and Unloading

NSHI operations involving bulk loading and unloading primarily include transfer of fluids to and from the Hot Oil Heater system, transfer of produced hydrocarbons to an offsite distillation plant, and transfer of produced waters to an evaporative pond associated with adjacent Natural Soda operations. Following are guidelines for bulk oil transfer operations.

• All loading and unloading operations will be conducted within the same secondary containment system used for facility containers and HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

$\mathbf{A}$	Document Title	NSHI SPCCPPart 1							
Doc #	Е 261-Р	Revision Date	08/28/2013	Revision	3	Status	Released		
	Document Owner		Clark, Michael		I				

processing equipment.

- NSHI personnel must be present during all loading and unloading operations.
- Tank truck operators must remain with their respective vehicles at all times when transfer hoses are connected.
- Transfer line connections will be checked prior to beginning transfer operations.
- The wheels of tank trucks will be chocked to prevent runaway.
- Transfer hoses will be emptied of their contents prior to disconnection.
- Connection points on tanks will be checked prior to departure from the site.
- Facility piping connection points for bulk loading / unloading will be capped or blank flanged and locked when not in service.
- Appropriate spill containment equipment and materials (e.g. pads, absorbent booms, etc.) shall be maintained at all times adjacent to bulk transfer location. No bulk transfer activities will be conducted in the absence of a sufficient quantity of appropriate spill containment equipment and materials.
- All spills are to be contained, reported, and immediately cleaned up.

### I.D. Discharge Response Procedures and Notifications (§§112.4 and 112.7(a)(3)(iv)-(vi), and (a)(4).

Discharges would typically be discovered during the inspections conducted at the facility in accordance with this plan. However, should a discharge to navigable waters or adjoining shorelines be discovered, HARD COPIES ARE NOT CONTROLLED REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

<b>A</b>	Document Title	NSHI SPCCPPart 1						
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released	
	Document Owner		Clark, Michael	· · · · · · · · · · · · · · · · · · ·		······································		

facility personnel must take immediate actions.

Countermeasures for discharge discovery, response, and cleanup (both the facility's capability and those that might be required of a contractor) include:

- Employee discovering an incident assesses immediate safety risks.
- Employee immediately secures the area, including preventing others from entering a harmful situation and, if no imminent safety concerns, shutting down mechanical source of discharge.
- Employee immediately reports incident to the ERC. If the ERC is not immediately available, employee notifies Natural Soda supervision in accordance with the call-down list on Appendix A.
- The ERC or supervisor backup will conduct hazard assessment to evaluate safety risks.
- The ERC, or backup, and immediately available management team will determine, through hazard assessment, whether containment and cleanup measures can be performed safely by appropriately trained facility personnel.
- If safe and appropriate to proceed, site personnel will immediately begin containment using available materials (including spill kits, bulk sorbents, soils, etc.) and cleanup.
- If the spill cannot be contained by facility personnel due to safety concerns or spill magnitude, Clean Harbors will be requested to respond for containment and cleanup on an emergency basis.
- Local fire, rescue, and hazardous materials crews (911 call) will be contacted to provide emergency support for all spills where the hazard assessment indicates fire or life safety concerns.
- ERC will determine if external notification to Federal, State or local authorities is required; and make internal notifications to company management.

The immediate priority for all incident response is the protection of workers. A hazard analysis will be performed, which takes into account the type of incident, the characteristics of the material released, the location of the release relative to potential receptors (including environmental receptors) and the magnitude of the release. The goal of all incident response is to clean up any adverse discharge of oil to the environment so that no significant deleterious effects are left behind.

Following incident response and associated hazard analysis, root-cause investigation will be conducted to determine the mechanism of release and HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

	Document Title		NSHI SPCCPPart 1							
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released			
	Document Owner									

to determine corrective actions necessary to prevent recurrence.

The ERC will perform the full release assessment, hazard analysis and rootcause investigation.

The general response procedures include

- Stopping the release;
- Containing released materials;
- Cleanup of released materials; and
- Decontamination of the incident area.

The type of personal protective equipment (PPE), response equipment, cleanup procedures, and decontamination procedures will vary depending upon the specific nature of the release and will be specified by either the supervisors or ERC. Free oil recovered from secondary containment structures may be placed in the Used Oil containers for future recycling. Absorbent material (i.e., oil dry, pigs, socks, etc.) will be recovered using a non-sparking shovel and placed in an appropriate Department of Transportation (DOT) approved shipping container for disposal by a licensed waste hauler (Clean Harbors).

Certain incidents may necessitate the need for sustained actions. Examples of this include cleanup and repair following a major oil release to the environment. In such cases, NSHI may retain outside parties, such as Clean Harbors, as needed to conduct or assist in performing the sustained response actions. The ERC will be responsible for initiating sustained actions, when appropriate. In addition, the ERC will also be responsible for ensuring that any recovered oil material is disposed in accordance with all applicable regulations.

Termination of release response actions will be the responsibility of the management team. Follow-up actions typically include: post-action review of the incident, critique of the response actions, review of the SPCC plan, and preparation of follow-up report(s), e.g. to agencies. The ERC will initiate appropriate follow-up actions.

Per 40 CFR 112.4, whenever there is a discharge of more than 1,000 U.S. gallons of oil in a single discharge, or more than two discharges each HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

	Document Title		NSHI SPCCPPart 1							
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released			
	Document Owner		Clark, Michael							

of more than 42 U.S. gallons of oil occurring within any twelve month period, that reach navigable waters of the United States, or otherwise harmful as described in 40 CFR 110, the ERC will submit the appropriate report to the EPA Regional Administrator within 60 days from the time of discharge.

If an oil discharge results in contamination of a navigable waterway of the US, the ERC will provide immediate notification to local, state, and federal authorities.

Our methods of disposal of recovered materials are:

- Accumulation of cleanup materials (e.g. absorbent pads and booms) and contaminated media (soils, etc.) in containers legally compliant for shipping; engaging hazardous waste contractor; Clean Harbors, to remove and properly dispose of accumulated cleanup materials and contaminated media.
- As necessary for disposal, samples of contaminated materials and media may be collected and submitted to a qualified laboratory to be analyzed for hazardous waste characteristics.

A list of important contacts, in the event of a discharge are provided in Appendix A, Release Response Procedure.

Our procedures and information for reporting a discharge are listed below:

In the event of an unauthorized discharge of oil or oil-containing fluids, personnel operating the facility will--if it is safe to do so--attempt to stop the discharge by closing appropriate valves, pipes, or hoses by mechanical controls available. All oil-containing vessels and flow lines are located within secondary containment. Spills should therefore be contained. Spills within secondary containment must be locally contained as much as possible to facilitate cleanup.

Personnel responding to a spill will record the following:

HARD COPIES ARE NOT CONTROLLED REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

	Document Title		NSHI SPCCPPart 1						
Doc #	E 261-P	Revision Date							
	Document Owner	Clark, Michael							

- Date and Time of discharge
- Type of material discharged
- Location and source within the facility of discharge
- Estimate of total quantity discharged
- Description of all affected media
- Cause of discharge
- Any damages or injuries caused by the discharge
- Actions used to stop the discharge
- Actions used to remove and mitigate the effects of the discharge
- Whether an evacuation may be needed
- Names of individuals and organizations contacted

Appendix B provides criteria for reporting information and incident record.

#### I.E. Emergency Procedures (§112.7(a)(5)).

Our procedures to use when a discharge occurs include the following:

Appendix A illustrates appropriate release response procedures, including contact information of appropriate personnel.

Appendix B is the form to be used for on-scene recording of releasereporting information.

#### I.F. Fault Analysis (§112.7(b)).

We have considered the most likely failure scenarios and summarized in Appendix C: Release Scenarios.

Appendix C considers the equipment, failure type, discharge rate, total potential discharge quantity, direction of flow from potential release, and potential down-flow effects.

$\mathbf{A}$	Document Title		NSHI SPCCPPart 1							
Doc #	E 261-P	Revision Date 08/28/2013 Revision 3 Status Released								
	Document Owner	Clark, Michael								

## I.G. Secondary Containment, Diversionary Structures, and/or Alternative (§§112.7(a)(3)(iii), 112.7(c), 112.7(k)).

1.G.1. Secondary Containment, Diversionary Structures, and/or Alternative (§112.7(a)(3)(iii) and(c)).

Our facility is configured to minimize the likelihood of a discharge reaching navigable waters. The following measures are provided:

Secondary containment will be constructed of walls sufficiently impervious to contain oil and be of sufficient capacity to contain the volume of the largest container plus freeboard to account for precipitation.

The entire operation, from OSR wellhead to hydrocarbon storage vessel and produced-water storage vessel, including all flow lines and flowthrough equipment, drums and totes, will be located within secondary containment.

Calculations for secondary containment capacity, considering volume and footprint requirements, are presented in Appendix H.

Spill kits equipped with materials sufficient to contain most spills are located appropriately within the facility. Though all oil-containing equipment is to be located within secondary containment, spills will be isolated and cleaned up.

Because we will install containment into which all oil-bearing equipment will be located, we are not required to have an oil spill contingency plan nor a written commitment of manpower, equipment, and materials to control and remove discharged oil. Refer to Section I.G. for more information about our preventive measures.

#### I.H. Facility Inspections, Tests, and Records

The Business Support and Sustainability Manager, Technical Manager, or competent designee is responsible for conducting facility inspections and tests and maintaining inspection records (signed by the appropriate HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

A	Document Title	NSHI SPCCPPart 1							
Doc #	E 261-P	Revision Date 08/28/2013 Revision 3 Status Releas							
	Document Owner	Í	Clark, Michael		Ĭ				

supervisor or inspector) with the SPCC Plan for a period of three years.

#### I.I Personnel, Training, and Spill Prevention Procedures (§112.7(f)).

All oil-handling personnel in the operation and maintenance of equipment to prevent discharges of oil will receive initial and refresher training on discharge procedures protocols, general facility operations, and the contents of the facility SPCC Plan. The Business Support and Sustainability Manager is responsible for providing all oil-handling personnel with a copy of NSHI's SPCC Plan, obtaining written acknowledgement that oil-handling personnel understand, will abide by and will be accountable to the SPCC Plan.

Oil-handling personnel who deliver and take away bulk quantities of oil will complete and oil-handling checklist with each transaction.

Appendix D includes the bulk-petroleum handling checklist.

In addition, we are committed to providing proper and regular instruction of oil- handling personnel in applicable pollution control laws, rules, and regulations. Applicable pollution control laws, rules and regulations pertinent to tasks involving oil-handling personnel are embodied in NSHI's SPCC Plan. Oil-handling personnel sign an acknowledgement of understanding of NSHI's SPCC Plan.

The Business Support and Sustainability Manager is responsible for ensuring that oil-handling employees are properly instructed.

The Business Support and Sustainability Manager is designated and accountable for overseeing discharge prevention activities

The Business Support and Sustainability Manager is responsible for reporting on the progress of discharge prevention activities to facility management.

$\land$	Document Title	NSHI SPCCPPart 1							
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released		
	Document Owner		Clark, Michael						

The Business Support and Sustainability Manager is responsible for conducting discharge prevention briefings at least once a year for oilhandling personnel to ensure adequate understanding of the facility SPCC Plan. Such briefings highlight and describe any known discharges or failures, malfunctioning components, and any recently developed precautionary measures.

#### I.J. Facility Security (Excluding Oil Production Facilities) (§112.7(g)).

The facility will be an oil-production facility, but we intend to meet requirements of 112.7(g) regardless. To prevent unauthorized access to oil handling, processing, and storage areas, our facility has established several security measures.

- Any unauthorized visitation to the facilities is prohibited.
- Appropriate fencing will be installed on the facility perimeter to inhibit access.
- Signage will be installed on approach to the facilities and on perimeter fencing that warns against trespass.
- Any personnel not directly involved with the operation of the facility must sign in at the Natural Soda plant office prior to access and must be accompanied by personnel involved with operation of the facility.

We employ the following procedures to secure master flow and drain valves:

- Master flow and drain valves that may expose vessels to adverse discharge are provided with locking mechanisms.
- Keys to the locking mechanisms are controlled in a lockbox in the facility office.
- Access to the lock box will be restricted to authorized personnel.

We employ the following procedures to prevent unauthorized access to starter controls on oil pumps:

Document Title NSHI SPCCPPart 1							
Doc #	E 261-P	Revision Date	08/28/2013	Revision	3	Status	Released
	Document Owner	Ī	Clark, Michael				

- Start controls on pumps are accessed only by personnel authorized to operate the facility.
- Only personnel authorized to operate the facility are allowed access to the facility.

The following are the procedures to secure out-of-service and loading/unloading connections of oil pipelines:

- The facility is to be newly constructed. Out-of-service connections to oil pipelines is not within the scope of this new facility.
- All connections to piping that pose a risk of adverse discharge will be installed with locking mechanisms to prevent discharge. Keys to those locking mechanisms will be controlled in a lock box in the facility office.

We maintain sufficient security lighting that is appropriate for preventing acts of vandalism and assisting in the discovery of oil discharges.

Lighting is to be maintained sufficient to illuminate all grounds within the perimeter fencing as well as all areas within the vessel installation sites and containment structures.

## I.K. Facility Tank Car and Tank Truck Loading/Unloading (Excluding Offshore Facilities) (§112.7(h)).

Tank truck loading and unloading will occur within the secondary containment structure.

Appendix D includes checklist items to help ensure bulk loading and unloading precautions are taken.

#### I.L Brittle Fracture Evaluation Requirements (§112.7(i)).

If a field-constructed aboveground container undergoes a repair, alteration, reconstruction, or a change in service that might affect the risk of a HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

	Document Title				CCPPart 1		
Doc		Revision Date	08/28/2013	Revision	3	Status	Released
	Document Owner		Clark, Michael	a	Ī		

discharge or failure due to brittle fracture or other catastrophe, or the container has discharged oil or failed due to brittle fracture failure or other catastrophe, the project engineer will evaluate the container for risk of discharge or failure due to brittle fracture or other catastrophe, and as necessary, take appropriate action.

### I.M. Conformance with General Federal and State Requirements for SPCC Plans (§112.7(a)(1) and (j)).

The State of Colorado and Rio Blanco County do not have additional SPCC Plan requirements.

	Document Title		NSHI SPCCPPart 2							
Doc #	Е 262-Р	Revision Date	Revision Date 08/27/2013 Revision 3 Status Released							
	Document Owner	Clark, Michael								

### SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN (SPCCP) part 2 of 3

NATURAL SODA HOLDINGS INC

Completed by: MICHAEL CLARK Completed Date: 08/09/2013

HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

A	Document Title		NSHI SPCCPPart 2							
Doc #	Е 262-Р	Revision Date								
	Document Owner		Clark, Michael							

#### II. <u>Requirements for Petroleum and Non-Petroleum Oils, Except</u> <u>Animal and Vegetable Oils (40 CFR 112 Subpart B).</u>

### II.A. Requirements for Onshore Facility Drainage (Excluding Production Facilities) (§112.8).

Our facility is not an onshore, non-production facility; therefore, we are not required to comply with Section 112.8.

### **II.B Requirements for Onshore Production Facilities (Excluding Drilling or Workover Facilities) (§112.9).**

II.B.1 Conformance with Specific Requirements (§112.9(a)).

NSHI's OSR facility operates in conformance with all applicable regulations that are designed to reduce the risk of adverse discharge, as described in this SPCC Plan.

#### *II.B.2 Oil Production Facility Drainage (§112.9(b)).*

Drains of secondary containment structures are closed and sealed at all times, except when draining containment systems as described below. Locking mechanisms are installed on secondary containment drains. Keys to locking mechanisms are controlled in a key box in the facility office accessible only by authorized oil-handling personnel.

Rainwater may accumulate in secondary containment structures. Uncontaminated rainwater may be released from containment drains directly to ground, if the quantity of water and rate of release does not cause adverse impact to the grounds or adversely affect safety of other activities. When accumulated precipitation will be released to the ground, the team member performing the drainage will first inspect the accumulated water for sheens or other evidence of oil contamination and will only release the precipitation after verifying no oil contamination is

$\land$	Document Title		NSHI SPCCPPart 2						
Doc #	E 262-P	Revision Date	Revision Date 08/27/2013 Revision 3 Status Released						
	Document Owner		Clark, Michael						

present.

The Precipitation Drainage Form, in Appendix F, will be used to document inspection for accumulated oil prior to releasing accumulated precipitation from the secondary containment structure to the ground.

If the quantity of uncontaminated rainwater is too large for release direct to ground, then that water is to be transferred by vacuum truck for discharge into the nearby Natural Soda evaporation pond.

Any accumulated oil on the rainwater will be eliminated by removal or in-situ decomposition, depending on size and scope of accumulation. Removal will consist of entrapment within absorbent materials in the form of booms, pads or granular media. Used absorbent material will be placed in containers suitable for shipping. Containers of used absorbent materials will be collected and properly disposed by a properly licensed contractor (Clean Harbors). Alternatively, accumulated oil may be decomposed in place by application of commercially available products that utilize hydrocarbon-consuming microbes. In-situ decomposition practices will be monitored for effectiveness, and if not effective, accumulated oil will be removed with absorbent materials.

Roadways accessing the OSR will be monitored by observation of personnel attending the operation for spills. Vehicle operators servicing the OSR will be required to report any spill along roadways. Spills along roadways will be cleaned up by removal of contaminated soils and road base, placing in containers suitable for transport and contracting with Clean Harbors for proper disposal. Spills too large for cleanup by NSHI personnel will be contracted for cleanup with Clean Harbors.

In general, all areas of NSHI operation are subject to informal inspections on a daily basis by personnel operating the facility. Accumulation of oil from any small discharge is reported to the Business Support and Sustainability Manager or the V.P. of Operations within 24 hours and plans made for timely clean up.

A	Document Title		NSHI SPCCPPart 2						
Doc #	Е 262-Р	Revision Date	Revision Date 08/27/2013 Revision 3 Status Released						
	Document Owner	Clark, Michael							

Documented inspections are performed monthly and annually as prescribed by the inspection forms adopted from the Steel Tank Institute SP001 Standard for Inspection of Aboveground Storage Tanks by personnel operating the facility. Inspection documents are verified and maintained by the Business Support and Sustainability Manager.

Appendices E1 through E4 include inspection criteria and provides record of monthly and annual inspections. Records are maintained for at least 3 years.

#### II.B.3 Oil Production Facility Bulk Storage Containers (§112.9(c)).

II.B.3.i. Bulk Storage Container Material (§112.9(c)(1)).

At our facility, the material and construction of bulk containers will be compatible with the material stored in them and the conditions of storage. Specifically, our bulk containers that store oil are constructed of various corrosion-preventative materials depending on the nature and application of the container (see Appendix E1). Construction materials include carbon steel, stainless steel and polytetrafluoroethylene-lined carbon steel and are designated on specification sheets for each container.

II.B.3.ii. Secondary Containment for Bulk Storage Containers (§112.9(c)(2)).

We will construct secondary containment to hold all hydrocarboncontaining apparatus: vessels, pipes, flow-through equipment, drums and totes. Secondary containment will also provide for spill control for bulk loading and unloading by allowing mobile equipment access to and location within the secondary containment structure while loading and unloading.

The secondary containment structure will be built on the slope of the

A	Document Title		NSHI SPCCPPart 2							
Doc #	E 262-P	Revision Date	Revision Date 08/27/2013 Revision 3 Status Released							
	Document Owner		Clark, Michael							

OSR area and consist of a U-shaped earthen berm configuration open to the upslope side. The down-slope end berm will be of sufficient height, with the side berms merging from a zero-height at the open end to the height of the down-slope end berm, to contain at least the volume of the largest tank plus sufficient free-board to contain precipitation from a 25year, 24-hour storm event. Determination of volume of the secondary containment structure are presented in Appendix H. Material used to construct the berm will be sufficiently impervious so as to retain material spilled from the largest vessel until cleanup can be completed.

The secondary containment structure, vessels and associated components within are subject to documented monthly and annual inspections that are intended to identify degradation of components and prevent system failures. Corrective actions are determined and suitable repairs are made if component or system degradation is identified.

II.B.3.iii. Inspections, Tests, and Records (§112.9(c)(3)).

At our facility, bulk storage containers that contain oil are visually inspected informally on a daily basis, and formally monthly and annually by a competent, qualified individual for condition and need for maintenance.

Appendices E1-E4 include criteria for container inspections and provides record of those inspections.

III.B.3.iv. Bulk Storage Container Overflow Prevention (§112.9(c)(4)).

Bulk storage tank installations will be engineered or updated in accordance with good engineering practice to prevent discharges. All vessels pertinent to the operation, including bulk storage vessels, are outlined in SPCC Plan Part 1, section I.C.--Facility Location and Layout.

As appropriate to the specific container, each container will be engineered to capacity adequate to prevent overflow or other unintended discharge.

A	Document Title		NSHI SPCCPPart 2						
Doc #	Е 262-Р	Revision Date	08/27/2013	Revision	3	Status	Released		
	Document Owner	Clark, Michael							

Additionally, depending on the nature of the container, spill prevention measures will include:

- overflow equalization lines between containers.
- vacuum protection adequate to prevent container collapse.
- high-level sensors that generate and transmit an alarm signal to controlling computer system, which will shut the system down upon high-level alarm.
- Outflow from the OSR well driven by a 50 gpm down-hole pump, from which flow and rate will drive downstream processes and flow-through vessels. Shutdown of this pump will shut down process between the wellhead and the storage tanks.
- Outflow from the OSR well on an as-needed basis, engaging the down-hole pump only often enough to evacuate the chamber in which liquid hydrocarbons slowly accumulate. The down-hole pump will be manually turned on and off by a facility operator; it is not automatically engaged.
- Offloading of bulk storage to mobile equipment for transport off site accomplished only while the bulk transfer operation is attended by a competent operator.
- Loading of oil-storing equipment, e.g. the heat-transfer system, accomplished by a competent operator.

The engineering design is still in progress for vessel configurations, and the exact prevention measures to be used for each vessel has not been determined at this time. This SPCC will be amended and re-certified after final vessel design is completed.

#### II.B.3.v. Flow-Through Process Vessels (§112.9(c)(5)).

We have chosen not to implement the alternate requirements for flowthrough process vessels as described at \$112.9(c)(5). Therefore, we provide sized secondary containment as required in \$112.9(c)(2) and (c)(3). See section II.B.3.ii. to II.B.3.iii. for more information. All flowthrough equipment will be located within the secondary containment

A	Document Title		NSHI SPCCPPart 2						
Doc #	E 262-P	Revision Date							
	Document Owner	Clark, Michael							

structure.

II.B.3.vi. Produced Water Containers (§112.9(c)(6)).

All produced-water vessels will be located within the secondary containment structure.

*II.B.4. Facility Transfer Operations for an Oil Production Facility* (§112.9 (d)).

II.B.4.i. Inspection of Aboveground Valves and Piping (§112.9(d)(1)).

All aboveground valves and piping associated with transfer operations are subject to undocumented daily inspections by personnel operating the facility as well as documented inspections on a monthly basis and each time bulk transfer operations are performed. Bulk transfer operators are responsible for completing a checklist for criteria prior to, during, and after transfer.

Appendix D includes checklist criteria for bulk transfers and provides record of inspection.

II.B.4.ii. Inspection of Saltwater Disposal Facilities (§112.9(d)(2)).

Components of the saltwater (oil field brine) disposal facilities are inspected after a sudden change in atmospheric temperature and monthly by field operation personnel as described in section I.H. This includes the pumps and motors for working condition and leaks, hoses, valves, flowlines, and the saltwater injection wellhead.

II.B.4.iii. Flowlines/Intra-Facility Gathering Lines (§112.9(d)(3) and (d)(4)).

All flowlines and intra-facility gathering lines will be located entirely within the secondary containment structure.

A	Document Title		NSHI SPCCPPart 2						
Doc #	E 262-P	Revision Date	08/27/2013	Revision	3	Status	Released		
	Document Owner	Clark, Michael							

Flowlines and intra-facility gathering lines, associated valves, vessels, and equipment will be compatible with the type of production fluids; their corrosive potential, volume, and pressure; and other conditions expected in the operational environment.

Formal monthly and annual inspections will monitor flowlines and gathering lines for signs of potential failure, such as leaks and loose couplings. Formal monthly and annual inspections will be documented on the checklists in Appendix E.

Facility personnel will visually monitor the operations daily. Personnel will monitor temperature, pressure, and flow rates of components to ensure the system functions within expected parameters. Operation outside of expected parameters indicate possible system upset which would be cause for system shutdown to prevent failure and unwanted discharge. Facility personnel will provide informal visual inspection of flow lines and gathering lines daily for leaks and loose couplings during normal operations.

Upon selection of suppliers and manufacturers for flow line systems, a complete flow line maintenance program will be developed based on manufacturer specifications and operating recommendations. The flow line maintenance program will include corrective actions based on the findings of the regular monthly inspection program, as well as regularly scheduled replacement of components as recommended by the manufacturer. In addition, automated control systems connected to flowlines will be tested periodically in accordance with manufacturer recommendations.

### II.C. Requirements for Onshore Oil Drilling and Workover Facilities (§112.10).

Our facility does not have any onshore oil drilling or workover facilities; therefore, we are not required to comply with Section 112.10.

A	Document Title	NSHI SPCCPPart 2							
Doc #	E 262-P	Revision Date							
	Document Owner Clark, Michael								

The OSR will utilize the well hole and down-hole cavity that is developed from withdrawal of nacholite by the adjacent Natural Soda solution mining operation.

### **II.D Requirements for Offshore Oil Drilling, Production, or Workover Facilities (§112.11).**

Our facility is not an offshore oil drilling, production, or workover facility; therefore, we are not required to meet the requirements of Section 112.11.

A	Document Title		NSHI SPCCPPart 3						
Doc #	Е 263-Р	Revision Date							
	Document Owner		Clark, Michael						

### **SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN (SPCCP) part 3 of 3**

NATURAL SODA HOLDINGS, INC

Completed by: MICHAEL CLARK Completed Date: 08/07/2013

HARD COPIES ARE NOT CONTROLLED REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

	Document Title		NSHI SPCCPPart 3							
Doc #	E 263-P	Revision Date								
	Document Owner		Clark, Michael							

#### III. <u>Requirements for Animal Fats, Oils, Greases; Fish and</u> <u>Marine Mammal Oils; and Vegetable Oils.</u>

Our facility does not handle animal fats, oils and greases; fish and marine mammal oils; or vegetable oils including oils from seeds, nuts, fruits, or kernels, applicable to Sections 112.12; therefore, we are not required to comply with Sections 112.12.

#### IV. Appendices.

We have attached the following documents to this plan to help ensure better understanding of our written plan:

- A -- Release Response Procedure and call-down information
- B -- Release Reporting Information and record
- C -- Release Scenarios
- D -- Bulk Handling Checklist
- E1 -- STI SP001 AST Record
- E2 -- STI SP001 Monthly Inspection Checklist
- E3 -- STI SP001 Annual Inspection Checklist
- E4 -- STI SP001 Portable Container Monthly Inspection Checklist
- F -- Drainage Inspection Form
- G -- Substantial Harm Determination
- H -- Calculations for Secondary Containment Capacity
- I -- Review and Amendment Log

#### Attachments

- Attachment 1: Utility Map
- Attachment 2: Preliminary Surface Facilities Layout
- Attachment 3: NSHI Drainage Map








HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION. HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

A	Document Title				-Release Reporting In	formation	
Doc #	E 260 B-R	Revision Date	08/09/2013	Revision	1	Status	Released
	Document Owner	I	Clark, Michael		I		

# **RELEASE REPORTING INFORMATION**

Date and time of discharge	
Material discharged	
Source of discharge	
Estimate of quantity	
Cause of discharge	
Effects of the discharge	
Damages or Injuries	
Actions to stop discharge	
Actions to remove effects	
Evacuation needed?	
Contacts made	
outside contact, other than f	irst responders, must be made by management)

Reported by:	Date/Time of Report:
--------------	----------------------

Reported to: \_\_\_\_\_

HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION. HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

Released Status NSHI SPCCP-Appendix C-Release Scenarios ŝ Revision Clark, Michael 08/27/2013 Revision Date Document Title Document Owner E 260 C-Rf Doc # ~

# Appendix C: NSHI SPCCPlan -- Summary of potential release scenarios

Equipment	Failure Type	Discharge Rate	Total Potential Discharge	Direction of flow from potential release	Potential down-flow effects
Hot Oil Expansion Tank (V-008)	a) Failure of couplings b) Full rupture of tank	a) 120 gpm b) 500 gpm	a) 1,000 gal b) 1,000 gal	a) Within containment b) Within containment	a) none-contained b) none-contained
<u> </u>	c) Failure at delivery truck during fill	c) 30 gpm	c) 60 gal (shutoff within 2 min. by	c) Within containment	c) none-contained
			attendant)		
Hot Oil Catch Tank (V-	a) Failure of couplings	a) 120 gpm	a) 500 gal	a) Within containment	a) none-contained
(600	b) Rupture of tank	b) 500 gpm	b) 500 gal	b) Within containment	b) none-contained
Gas/Liquid Separator (V-	a) Failure of couplings	a) 50 gpm	a) 30 gal	a) Within containment	a) none-contained
002)	b) Rupture of tank	b) 50 gpm	b) 30 gal	b) Within containment	b) none-contained
Overheads Gas / Oil /	a) Failure of couplings	a) 50 gpm	a) 100 gal	a) Within containment	a) none-contained
Water Separator (V-003)	b) Rupture of tank	b) 50 gpm	b) 100 gal	b) Within containment	b) none-contained
Bottoms Gas / Oil /	a) Failure of couplings	a) 50 gpm	a) 100 gal	a) Within containment	a) none-contained
Water Separator (V-004)	b) Rupture of tank	b) 50 gpm	b) 100 gal	b) Within containment	b) none-contained
Hydrocarbon Storage	a) Failure of couplings	a) 120 gpm	a) 5,000 gal	a) Within containment	a) none-contained
Tank (V-005)	b) Rupture of tank	b) 500 gpm	b) 5,000 gal	b) Within containment	b) none-contained
	c) Failure during off-	c) 30 gpm	c) 60 gal (shutoff	<ul> <li>Within containment</li> </ul>	c) none-contained
	loading to tank truck		within 2 min by		
			attendant		
Waste Water Storage	a) Failure of couplings	a) 120 gpm	a) 1,000 gal	a) Within containment	a) none-contained
Tank (V-006)	b) Rupture of tank	b) 500 gpm	b) 1,000 gal	b) Within containment	b) none-contained
	c) Failure during off-	c) 30 gpm	c) 60 gal (shutoff	c) Within containment	c) none-contained
	loading to tank truck		within 2 min by attendant		
Water Seal Tank (V-007)	a) Failure of couplings b) Rupture of tank	a) 50 gpm b) 50 gpm	75 gal	Within containment	None-contained
Flow Lines	a) Failure of couplings	50 gpm	100 gal (shutoff within	Within containment	None-contained
	or pipe		2 min by attendant)		
OSR Well Head	a) Failure of couplings	50 gpm	100 gal (shutoff within	Within containment	None-contained
	or pipe		2 min by attendant)		
			-		

HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION.

TLAR CONTRALARY CONTRACT FOR DEFER TO ELECTRONIC LICENTA CONTRALATION AND MORE AND MURCHAN

$\mathbf{A}$	Document Title				DBulk Handling	Checklist	
Doc #	E 260 D-R	Revision Date	08/09/2013	Revision	1	Status	Released
	Document Owner		Clark, Michael				

### **Bulk Petroleum Products Vendor Delivery Checklist**

Invoice #:\_\_\_\_\_ Vendor Name:\_\_\_\_\_

P. O. #:\_\_\_\_\_ Driver Name: \_\_\_\_\_ Signature\*: \_\_\_\_\_ \*By signing this form the Driver is acknowledging that he/she will comply with best-practice spill control protocols and guidelines on the Vendor Disclosure Notice.

Date:\_\_\_\_\_ Check In Time:\_\_\_\_\_ a.m./p.m. Check Out Time:\_\_\_\_\_ a.m./p.m.

Substance Delivering: \_\_\_\_\_ Delivery Location: \_\_\_\_\_

- □ Checked area for recently spilled oil or fuel before, during, and after the transfer operations.
- □ Checked transfer line connections prior to beginning transfer operations.
- Checked liquid level in each tank prior to beginning transfer operations.
- □ Ensured the brakes of the tank truck are set and the wheels are blocked to avoid movement.
- □ Attached grounding equipment.
- □ Ensure spill containment equipment is present.
- □ Checked secondary containment structure is sealed.

Indicate which of the following methods were used to prevent tank overfill (check ALL that apply):

- □ High level shut-off to prevent further filling of the tank.
- High level alarm or signal to warn of rising liquid level in tank (e.g., audible siren).
- Continuous manual tank gauging.
- $\Box$  Ensured the transfer hoses are empty prior to disconnection.
- □ Sealed all facility piping connection points with cap or blank/flanged.
- □ Checked connection points on the tanker truck prior to departure from site.

Did a release occur? \*\*

### IF A RELEASE OCCURS, NOTIFY NHSI PERSONNEL IMMEDIATELY.

HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION. HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

	Document Title		NSHI SI	PCCPAppendix	DBulk Handling Cl	necklist	
Doc #	E 260 D-R	Revision Date	08/09/2013	Revision	1	Status	Released
	Document Owner		Clark, Michael			· · · · · · · · · · · · · · · · · · ·	

# **VENDOR DISCLOSURE NOTICE**

While on the NHSI property, all petroleum transferring operations should be conducted in a manner that would prevent a release of oil to the environment. It is the responsibility of the vendor to follow and complete the provided checklist during each visit to the NHSI facility. It is the responsibility of the vendor to obtain the spill kit location nearest to their area of operation from NHSI personnel prior to performing any oil transferring operations. In the event a release to the environment should occur, the vendor must immediately notify NHSI personnel and wait for further instruction before implementing any spill response actions.

Please contact:	Michael Cla	rk	970-878-367	74, 25 (office)
		830-61	13-0435	(cell)
-or-	Main Office	8	830-693-3574	4

Released Status NSHI SPCCP--Appendix E1--STI-SP001 AST Record Revision Clark, Michael Revision Date 08/09/2013 Document Title Document Owner E 260 E1-R Doc # ₹

# Appendix E1: STI SP001 AST Record

OWNER INFORMATION	FACILITY INFORMATION	INSTALLERINFORMATION
Name	Name	Name
Number and Street	Number and Street	Number and Street
City, State, Zip Code	City, State, Zip Code	City, State, Zip Code

TANK ID						
SPECIFICATION:	:NC					
Design:			دا ا	Horizontal	Vertical	Rectangular
		- Other -	Ja		🔲 Unknown	
Manufacturer:		Cont	Contents:	Construction Date:	Date:	Last Repair/Reconstruction Date:
Dimensions:		Capacity	acity:	Last Change	Last Change of Service Date:	
Construction:	Bare Steel	Catholi	cally Protected (Cf	🔲 Catholically Protected (Check one: A. 🗌 Galvanic or B. 🗌 Impressed Current)Date Installed:	c or B. 🔲 Impressed	Current)Date Installed:
	Coated Steel	Concrete		□ Plastic/Fiberglass□ Other	her	
	Double-Bottom	Double-Wall		Lined Date Installed:		
Containment:	Earthen Dike	Cateel Dike	Concrete	Synthetic Liner	Other	and a second
CRDM:		Date Installed:		Type:		
Release Prever	Release Prevention Barrier:	Date Installed:		Type:		

AST INSPECTION STANDARD PAGE 1 of 4 COPYRIGHT© 2011 Steel Tank Institute

SEPTEMBER 2011

R	Document Title			NSHI SP	CCPAppendix E1	NSHI SPCCPAppendix E1STI-SP001 AST Record			
Doc#	E 260 E1-R	Revision Date	e 08/09/2013	3	Revision	-	Status	Released	T
D	Document Owner		Clark, Michael	lichael					
									_
SPECIFICATION:	ON:								
Design:				Horizontal	Vertical	Rectangular			
		Other			Unknown				
Manufacturer:		Contents:	s:	Construction Date:	n Date:	Last Repair/Reconstruction Date:	nstruction Date:		
Dimensions:		Capacity	jy:	Last Change	Last Change of Service Date:				
Construction:	□ Bare Steel	Catholical	ly Protected (CI	heck one: A. 🔲 Galvani	ic or B. 🔲 Impresse	□ Catholically Protected (Check one: A. □ Galvanic or B. □ Impressed Current)Date Installed:			
	Coated Steel	Concrete		□ Plastic/Fiberglass□ Other	ther				
	Double-Bottom	Double-Wall		Lined Date Installed:					
Containment:	Earthen Dike	Cteel Dike	Concrete	Synthetic Liner	Other				
CRDM:		Date Installed:		Type:					
Release Prevention Barrier:	ention Barrier:	Date Installed:		Type:					
	1								_
					2				
SPECIFICATION:	:NC								
Design:				Horizontal	Vertical	🔲 Rectangular			
	API	Other _			🔲 Unknown				
Manufacturer:		Contents:	::	Construction Date:	Date:	Last Repair/Reconstruction Date:	nstruction Date:		
Dimensions:		Capacity	K	Last Change	Last Change of Service Date:				
Construction:	☐ Bare Steel	Catholical	y Protected (Ch	reck one: A. 🔲 Galvani	ic or B. 🔲 Impresse	□ Catholically Protected (Check one: A. □ Galvanic or B. □ Impressed Current)Date Installed:			
	Coated Steel	Concrete		□ Plastic/Fiberglass□ Other	her				
	Double-Bottom	Double-Wall		Lined Date Installed:					
Containment:	Earthen Dike	Steel Dike	Concrete	Synthetic Liner	Other				
CRDM:		Date Installed:		Type:					
Release Prevention Barrier:	ntion Barrier:	Date Installed:		Type:				[	_

AST INSPECTION STANDARD PAGE 2 of 4 COPYRIGHT© 2011 Steel Tank Institute

Released Status NSHI SPCCP--Appendix E1--STI-SP001 AST Record Revision 08/09/2013 Revision Date Document Title E 260 E1-R Doc # ~

ŏ	Document Owner		Clark, Michael	lichael		
		6				
TANK ID						
SPECIFICATION:	:NC					
Design:			5	Horizontal	Vertical	Rectangular
		Other	-		Unknown	
Manufacturer:		Cont	Contents:	Construction Date:	Date:	Last Repair/Reconstruction Date:
Dimensions:		Cap	Capacity:	Last Change	Last Change of Service Date:	
Construction:	☐ Bare Steel	Catholi	cally Protected (CI	reck one: A. 🔲 Galvani	ic or B. 🔲 Impresse	🗖 Catholically Protected (Check one: A. 🗌 Galvanic or B. 🔲 Impressed Current)Date Installed:
	Coated Steel	Concrete		Plastic/Fiberglass Other	her	
	Double-Bottom	Double-Wail		Lined Date Installed:		
Containment:	Earthen Dike	Steel Dike	Concrete	Synthetic Liner	Other	
CRDM:		Date Installed:		Type:		
Release Prevention Barrier:	ntion Barrier:	Date Installed:		Type:		
SPECIFICATION:	:NC					
Design:				Horizontal	Vertical	Rectangular
	API	Other	-		🔲 Unknown	
Manufacturer:		Contents:	ents:	Construction Date:	Date:	Last Repair/Reconstruction Date:
Dimensions:		Capi	Capacity:	Last Change	Last Change of Service Date:	
Construction:	☐ Bare Steel	Catholi	cally Protected (Ct	ieck one: A. 🔲 Galvani	c or B. 🔲 Impresse	🗖 Catholically Protected (Check one: A. 🗌 Galvanic or B. 🔲 Impressed Current)Date Installed:
-	Coated Steel	Concrete		□ Plastic/Fiberglass□ Other	her	
	Double-Bottom	Double-Wall		Lined Date Installed:		
Containment:	Earthen Dike	Steel Dike	Concrete	Synthetic Liner	Other	
CRDM:		Date Installed:		Type:		
Release Prevention Barrier:	ntion Barrier:	Date Installed:		Type:		

AST INSPECTION STANDARD PAGE 3 of 4 COPYRIGHT© 2011 Steel Tank Institute

-----

	Document Title			NCH SN	CCPAnnendix F1	NSHI SPCCP-Annendix F1_STI-SP001 AST Record		
			ŀ					
Doc #	E 260 E1-R	Revision D	Date 08/09/2013	13	Revision	-	Status	Released
Do	Document Owner		Clark, Michael	Aichael				
TANK ID								
SPECIFICATION:	ON:							
Design:	n D	SWRI		Horizontal	□ Vertical	Rectangular		
		Other			🗌 Unknown			
Manufacturer:		Contents:	nts:	Construction Date:	ם Date:	Last Repair/Reconstruction Date:	Instruction Date:	
Dimensions:		Capacity	city:	Last Change	Last Change of Service Date:			
Construction:	☐ Bare Steel	Catholic	ally Protected (C	heck one: A. 🔲 Galvan	iic or B. 🔲 Impressé	Catholically Protected (Check one: A.  Galvanic or B. I Impressed Current)Date Installed:		
	Coated Steel	Concrete		Plastic/Fiberglass	ther			
	Double-Bottom	Double-Wall		Lined Date Installed:				
Containment:	Earthen Dike	Steel Dike	Concrete	Synthetic Liner	Other			
CRDM:		Date Installed:		Type:				
Release Prevention Barrier:	ention Barrier:	Date Installed:		Type:				
SPECIFICATION:	:NC							
Design:				Horizontal	Vertical	Rectangular		
	🗌 API	Other _			Unknown			
Manufacturer:		Contents:	nts:	Construction Date:	1 Date:	Last Repair/Reconstruction Date:	instruction Date:	
Dimensions:		Capacity:	sity:	Last Change	Last Change of Service Date:			
Construction:	☐ Bare Steel	Catholic	ally Protected (C	heck one: A. 🔲 Galvani	ic or B. 🔲 Impresse	🗖 Catholically Protected (Check one: A. 🗌 Galvanic or B. 🔲 Impressed Current)Date Installed:		
	Coated Steel	Concrete		□ Plastic/Fiberglass□ Other	ther			
	Double-Bottom	Double-Wall		Lined Date Installed:				
Containment:	Earthen Dike	Steel Dike	Concrete	Synthetic Liner	Other			
CRDM:		Date Installed:		Type:				
Release Prevention Barrier:	ntion Barrier:	Date Installed:		Type:				

AST INSPECTION STANDARD PAGE 4 Of 4 COPYRIGHT© 2011 Steel Tank Institute נו באה ממחובת באה גומה ממגוויים או הרובה. ארובה אמ זי גמיוז מגוומ בניהו במה בממבי מונאהרושי ארונומימוז

R	Document Title		NSHI SPCCPApp	endix E2STI-SF	NSHI SPCCPAppendix E2STI-SP001 Monthly Inspection Checklist	n Checklist	
å	Doc # E 260 E2-R	Revision Date	08/09/2013	Revision	-	Status	Released
	Document Owner		Clark, Michael				
		Appendix I	Appendix E2: STI SP001 Monthly Inspection Checklist	<u>ıthly Insp</u>	ection Check	<u>(list</u>	
Gene	General Inspection Information:	:					
-	Inspection Date:		Retain Until Date:		(36 months from inspection date)	spection date)	
Prior Ir	Prior Inspection Date:		Inspector Name:				
Tanks	Tanks Inspected (ID #'s):						
Inspe	Inspection Guidance:						
ш <del>г</del> Аа	For equipment not included in this Standard, The periodic AST Inspection is intended for r	is Standard, follow ntended for monitor	or equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures. The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure.	ed inspection/tes and its containn	sting schedules and p nent structure. This vi	rocedures. sual inspection doe	s not require a Certified
⊂ ⊇ ∧	nspector. It shall be performed by an owner' Joon discovery of water in the primary tank.	oy an owner's inspe rimary tank. second	nspector. It shall be performed by an owner's inspector who is familiar with the site and can identify changes and developing problems. Joon discovery of water in the primary tank, secondary containment area, interstice, or spill container, remove promptly or take other corrective action. Before	e and can identi e, or spill contai	ify changes and devel iner, remove promptly	loping problems. / or take other corre	sctive action. Before
5	scharge to the environment, in	spect the liquid for I	discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.	taminants and	disposed of it properly		
LZ A A	<ul> <li>designates an item in a non-conformance lon-conforming items important to tank or co</li> </ul>	conformance status. to tank or containm	(*) designates an item in a non-contormance status. This indicates that action is required to address a problem. Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank	duired to addre	ss a problem. • experienced in AST	design, a Certified I	Inspector, or a tank
E	manufacturer who will determine the correctiv	the corrective actic	re action. Note the non-conformance and corresponding corrective action in the comment section.	and correspond	ling corrective action i	n the comment sec	tion.

Retain the completed checklists for 36 months. In the event of severe weather (snow, ice, wind storms) or maintenance (such as painting) that could affect the operation of critical components (normal and emergency vents, valves), an inspection of these components is required as soon as the equipment is safely accessible after the event. Comments Yes\* No N/A Yes No\* N/A Ves No\* N/A Yes\* No Yes\* No Status debris, cracks or fire Operable and in a closed position Check for water, Visible signs of leakage hazard Check for water Task Clear and gates/doors operable **1.0 Tank Containment** 2.0 Leak Detection 1.4 Pathways and 1.1 Containment 1.2 Primary tank 1.3 Containment drain valves Item structure entry 2.1 Tank

AA

PAGE 1 of 3 AST INSPECTION STANDARD COPYRIGHT© 2011 Steel Tank Institute

----

								101	
Doc # E 260 E2-R		Revision Date	08/09/2013		Revision	n   1	St	Status	Released
Document Owner	Owner		Clark, Michael	hael					
ltem	Task	0)	Status			Comments	ents		
2.2 Secondary Containment	Visible signs of leakage from tank into secondary containment	×	Yes* _No						
2.3 Surrounding soil	Visible signs of leakage	Yes*	No N/A						
2.4 Interstice	Visible signs of leakage	Yes*	No N/A						
<b>3.0 Tank Equipment</b>	1								
3.1 Valves	1 1		No						
	b. Tank drain valves must be kept locked.	Tes*	No N/A						
3.2 Spill containment	a. Inspect for debris, residue and water in	TYes* No	No N/A	:#K					
boxes on fill	the box and remove.								
pipe	b. Drain valves must	Yes* No	No N/A						
	be operable and closed.								
3.3 Liquid level	a. Both visual and	Yes	No* N/A			-			
equipment	mechanical devices								
	for physical damage.								
	b. Check that the	Yes No*	No* N/A						
	device is easily								
19-00		-11							
3.4Overtill equipment	a. If equipped with a "test" button,	Yes N	No* N/A						
	activate the audible horn or light to								
	confirm operation.								
	This could be battery	-							
	powered. Replace								
	h If overfill valve is	Yes	No* N/A						
	equipped with a								
	mechanical test								
	mechanism, actuate								
	the mechanism to								
	contirm operation.								

AST INSPECTION STANDARD PAGE 2 of 3 COPYRIGHT© 2011 Steel Tank Institute

SEPTEMBER 2011

.....

Docur	Document Title	NSHI SPC	NSHI SPCCPAppendix E2STI-SP001 Monthly Inspection Checklist	01 Monthly Inspection	Checklist	
Doc # E 260 E2-R		Revision Date 08/09/2013	Revision	+	Status	Released
Document Owner	Owner	Clark, Michael				
ltem	Tack	Statuc		Commonte		
o F Disiso units	Oberle for look			COMPRESSION		
o.o ⊾iping, valve, seals, flanges, gaskets, joints,	uneck for leaks, corrosion and damage	res" NO				
and fittings						
3.6 Piping supports	Check for corrosion or damage	Yes* No				
3.7 Vehicle Protection	Signs or barriers present?	Yes* No				
3.8 Out of service piping	Capped or blank- flanged?	I Yes* No				
4.0 Tank Attachments and Appurtenances	ts and Appurtenance	es				
4.1 Ladder and platform	Secure with no sign of severe corrosion	Yes No* N/A				
5.0 Other Conditions						
5. 1 Are there other conditions that should be addressed for continued safe operation or that may affect the site sp prevention plan?	Are there other conditions that should be addressed for continued safe operation or that may affect the site spill prevention plan?	Yes, No				
Additional Comments:	ls:					
			(			
AST INSPECTION STANDARD COPYRIGHT© 2011 Steel Tank Institute	ANDARD 1 Steel Tank Institu	PAGE 3 Of 3 te	の 日 の	SEPTEMBER 2011		

Doc # E 260 E3-R Document Owner		Revision Date 08/09/2013 Clark, Michael	Revision		Status Released
Document O	wner	Clark, Micha	-		
			el		
	Appendi		x E3: STI SP001 Annual Inspection Checklist	spection C	hecklist
General Inspection Information:	Information:	-			
Inspection Date:		Retain Until Date:	il Date:	(36 months fror	(36 months from inspection date)
Prior Inspection Date:		Inspector Name:	lame:		
Tanks Inspected (ID #'s):					1
Inspection Guidance:	ince:			÷	
<ul> <li>For equipment not</li> <li>The periodic AST</li> </ul>	For equipment not included in this Standard. The periodic AST Inspection is intended for i	ard, follow the manufactu for monitoring the extern	follow the manufacturer recommended inspection/testing schedules and procedures. monitoring the external AST condition and its containment structure. This visual inspe	/testing schedules an inment structure. Thi	For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures. The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure.
Remove promptly	Inspector. It shall be performed by an owner Remove promptly upon discovery standing v	ner's inspector who is fa	's inspector who is familiar with the site and can identify changes and developing problems. vater or liquid in the primary tank, secondary containment area, interstice, or spill container.	entify changes and de inment area, interstic	Inspector. It shall be performed by an owner's inspector who is familiar with the site and can identify changes and developing problems. Remove promptly upon discovery standing water or liquid in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the
<ul> <li>In order to comply with EPA SPCC operation (40 CFR 112 8(c)(8)(v))</li> </ul>	environment, inspect the liquid for regulated In order to comply with EPA SPCC (Spill Pre operation (40 CFR 112 8(c)(8)(v))	Ited products or other con Prevention, Control and	products or other contaminants and disposed of it properly. vention, Control and Countermeasure) rules, a facility must	properly. ility must regularly te	products or other contaminants and disposed of it properly. evention, Control and Countermeasure) rules, a facility must regularly test liquid level sensing devices to ensure proper
<ul> <li>&gt; (*) designates an i</li> </ul>	item in a non-conforma	nce status. This indicate	(*) designates an item in a non-conformance status. This indicates that action is required to address a problem.	dress a problem.	
	tems important to tank of will determine the corr	or containment integrity r ective action. Note the m	Non-conforming items <u>important to tank or containment integrity</u> require evaluation by an engineer experienced in AST design, a Certified Insp manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section	eer experienced in A onding corrective acti	Non-conforming items <u>important to tank or containment integrity</u> require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section
	Retain the completed checklists for 36 months.	onths.			
<ul> <li>Complete this che</li> <li>Note: If a change</li> <li>plan requirement</li> </ul>	ecklist on an annual bas has occurred to the t t by a Professional En	sis supplemental to the or tank system or contain gineer knowledgeable	Complete this checklist on an annual basis supplemental to the owner monthly-performed inspection checklists. Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the col plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.	ection checklists. CC plan, the conditi mplementation.	Complete this checklist on an annual basis supplemental to the owner monthly-performed inspection checklists. Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.
ltem	Task	Status		Comments	ents
<b>1.0 Tank Containment</b>					
1.1 Containment CI	Check for:	□Yes*□No □N/A			
	Holes or cracks in				
	containment wall				
•	Washnut				
•	Liner degradation				
•	Corrosion				
•	Leakage				
• •	Paint failure Tank settling				
AST INSPECTION STANDARD	NDARD	PAGE 1 Of 7		SEPTEMBER 2011	÷
COPYRIGHT@ 2011	COPYRIGHT© 2011 Steel Tank Institute				-

معينية والإفراق والإفراق والإفراد ومومد لالمعمر والمعارية والمعامية والمعالية والمعالية والمعالية والمعالية والمعالية

	ocument Title		NSHI SPC(	CPAppendix E3S	NSHI SPCCPAppendix E3STI-SP001 Annual Inspection Checklist	pection Checklist	
Doc # E 260 E3-	E3-R	Revision Date	08/09/2013	Revision	1	Status	Released
Docume	ent Owner		Clark, Michael				

ltem	Task	Status	Comments
2.0 Tank Foundation and Supports	ion and Supports		
2.1 Foundation	Settlement or foundation washout?	Yes* No	
2.2 Concrete pad or ring wall	Cracking or spalling?	Yes* No N/A	
2.3 Supports	Check for corrosion, paint failure, etc.	Yes* No N/A	
2.4 Water drainage	Water drains away from tank?	Yes No* N/A	
2.5 Tank grounding	Strap secured and in good condition?	Yes No* N/A	
<b>3.0 Cathodic Protection</b>	ection		
3.1 Gavlvanic	Confirm system is	I Yes No* N/A	
cathodic	functional, includes the		
system	wire connections for galvanic systems		
3.2 Impressed	a. Inspect the	Ves No* N/A	
current	operational		
system	components (power		
	switch, meters, and alarms).		
	b. Record hour meter,	Tes No* N/A	
	ammeter and voltmeter readings.		
4.0 Tank Shell, Heads, Roof	ads, Roof		
4.1 Coating	Check for coating failure	Yes* No	
4.2Steel	Check for:	Yes* No	
condition	Dents     Budding		-
	Bulging		
	Corrosion		
4.3 Roof slope	Check for low points	Yes* No N/A	
	ariu stanuing water		

AST INSPECTION STANDARD PAGE 2 Of 7 COPYRIGHT© 2011 Steel Tank Institute

Dot	Document Title	Ň	NSHI SPCCP-Appendix E3STI-SP001 Annual Inspection Checklist	TI-SP001 Annual Insp	ection Checklist	
Doc # E 260 E3-R	3-R	Revision Date 08/09/2013	Revision	-	Status	Released
Document Owner	nt Owner	Clark, Michael				
Item	Task	Status		Comments	nents	
5.0 Tank Equipment	int					
5.1 Vents	Verify that	Yes* No				
	components are moving freelv and vent	ent				
	passageways are not	ot				
	obstructed for:					
	Emergency vent					
	Covers     Pressure/vacuum					
	vent poppets					
	Other moving vent     components					
5.2 Valves	Check the condition of	of Yes* No		-		
	all valves for leaks,					
	corrosion and					
	damage.					
5.2.1 Anti-siphon,	Cycle the valve open	Tes No* N/A				
crieck and gate valves	for proper operation.	×.				
5.2.2 Pressure	Check for proper	Yes No* N/A				
regulator	operation. (Note that					
valve	there may be small,	<i>N</i>				
	1/4 inch drain plugs in					
	the bottom of the valve	ve				
	that are not visible by	~				
	looking from above					
5.2.3 Expansion	Check that the valve is	is Ves No* N/A				
relief valve	in the proper					
	orientation. (Note that	at				
	fuel must be					
	discharged back to the	le				
	tank via a separate					
5.2.4 Solenoid	Cycle power to valve	Pes No* N/A				
valves	to check operation.					
	(Electrical solenoids					
	can be verified by					
	insterring to the plunger opening and closing. If	lf				
AST INSPECTION STANDARD	STANDARD	PAGE 3 of 7		SEPTEMBER 2011	111	

AST INSPECTION STANDARD COPYRIGHT© 2011 Steel Tank Institute

	Document Title			<b>VISHI SPCCP-</b>	-Appendix E3ST	NSHI SPCCPAppendix E3STI-SP001 Annual Inspection Checklist	pection Checklist	
Doc # E 260 E3-R	:3-R	Revision Date	08/09/2013		Revision	-	Status	Released
Docume	Document Owner		Clark, Michael					
Item	Task	Ó	Status			Com	Comments	
	confirmation, the valve should be inspected for the presence and operation of the plunger.)	ed nd						
5.2.5 Fire and shear valves	a. Manually cycle the valve to ensure components are moving freely and that the valve handle or lever has clearance to allow valve to close completely.		Yes No* N/A					
	b. Valves must not be wired in open position	t be Ves No* N/A tion.	lo* ⊡N/A		æ			
	<ul> <li>c. Make sure fusible element is in place and correctly positioned.</li> </ul>		Yes _No* _N/A					
	<ul> <li>d. Be sure test ports are sealed with plug after testing is complete and no temporary test fixture or component remains connected to valve.</li> </ul>	a su	Yes No* N/A					
5.3 Interstitial leak detection equipment	Check condition of equipment, including: The window is clean and clear in sight leak gauges. The wire connections of electronic gauges for tightness and corrosion Activate the test button, if applicable.		Yes □N/A					

AST INSPECTION STANDARD PAGE 4 Of 7 COPYRIGHT© 2011 Steel Tank Institute

SEPTEMBER 2011

Do	Document Title		NSF	HI SPCCPAppe	NSHI SPCCPAppendix E3STI-SP001 Annual Inspection Checklist	01 Annual Inspe	ection Checklist	
Doc # E 260 E3-R	3-R	Revision Date	08/09/2013	Rev	Revision	1	Status	Released
Documet	Document Owner		Clark, Michael				and the second of the second of the second	
Item	Task	Ś				Comments	ents	
5.4 Spill	a. If corrosion,	Yes*	No N/A					
boxes on fill	compromised the	a contraction of the contraction						
pipe	ability of the unit to							
	perform spill							
	containment functions,	ions,						
	replace the unit.							
	b. Inspect the	Yes*	No N/A					
	CONNECTIONS TO THE							
	well as the holts	0						
	nuts, washers for							
	condition and replace	ace						
	if necessary.							
	c. Drain valves must	Yes*	No N/A			2		
	be operable and							
	closed							
5.5 Strainer	a. Check that the	Yes	No* N/A					
	strainer is clean and in	nd in						
	good condition.							
5.5 Strainer	b. Access strainer	Yes	No* N/A					
	basket and check cap	cap						
_	and gasket seal as well as holts							
5.6 Filter	a Check that the filter	ilter Yes	No*I N/A					
	is in good condition							
	and is within the							
	manufacturer's							
	expected service life.	ife.						
	Replace, if necessary.	ary.						
	b. Check for leaks and	Yes	No* N/A					
	decreased fuel flow	N						
5.7 Flame	Follow manufacturer's		Yes* No N/A					
arrestors	instructions. Check for	< for						
	corrosion and							
	blockage of air							

AST INSPECTION STANDARD PAGE 5 of 7 COPYRIGHT© 2011 Steel Tank Institute

SEPTEMBER 2011

-----

Ô	Document Title		INSHI	NSHI SPCCPAppendix E3STI-SP001 Annual Inspection Checklist	STI-SP001 Annual Ins	pection Checklist	
Doc # E 260 E3-R		Revision Date	08/09/2013	Revision	-	Status	Released
Documer	Document Owner		Clark, Michael				
Item	Task	SI	Status		Com	Comments	
5.8 Leak detector	Test according to manufacturer's	Yes	No* N/A				
submersible	instructions and		_				
dund	authority having						
systems	Jurisdiction (AHJ). Verify leak detectors						
	are suited and						
	properly installed for						
	aboveyrounu use.						
o.a Liquiu level equipment	been tested to ensure	S D L					
-	proper operation?						
	b. Does equipment	Yes	No* N/A				
	operate as required?						
	c. Fallow	<pre>C Yes □No*</pre>	No* N/A				
	manufacturer's						
4	Instructions		1				
5.10 Overfill	a. Follow	Yes	No* N/A				
equipment	manutacturer's						
	instructions and	_					
	regulatory						
	requirements for						
	finotionality						
	verification						
	b Confirm device is	Yes	No* N/A				
	suited for above	-					
	ground use by the						
	manufacturer						
6.0 Insulated lanks	KS						
6.1 Insulation	Check condition of insulation for:	Yes*	No N/A				
	<ul> <li>Missing sections</li> </ul>						
	<ul> <li>Areas of moisture</li> </ul>						
	<ul> <li>Mold</li> </ul>						
	<ul> <li>Damage</li> </ul>						
6.2 Insulation	Check for damage that	at TYes* No	No N/A				
jacket	intrusion						
		DACE R OF 7	f 7		SEDTEMPED 2011	011	
COPVRIGHT® 2	COPYRIGHT® 2011 Steel Tank Institute						

Do	Document Title			NSHI SPCCPAppendix E3STI-SP001 Annual Inspection Checklist	SP001 Annual Insp	ection Checklist		
Doc # E 260 E3-R		Revision Date 08/09/2013	08/09/2013	Revision	1	Status	Released	
Documei	Document Owner		Clark, Michael					Π
Item	Task	St	Status		Comments	nents		
7.0 Miscellaneous	I I							
7.1 Electrical wiring and boxes	Are they in good condition?	Ves 🛛	□Yes □No* □N/A					
7.2 Labels and tags	Ensure that all labels and tags are intact and readable.		□Yes □No* □N/A					
Additional Comments:	iments:		-					]
								Ĩ
								Ĩ
								Ĩ
								Ĭ
								Ĩ
								Ĭ.
								1
								Ê
								Ĺ
								11
								1

AST INSPECTION STANDARD PAGE 7 Of 7 COPYRIGHT© 2011 Steel Tank Institute

-----

Document Title		NSHI SPC	CPAppend	lix E4STI-SP00	1 Portable Conta	NSHI SPCCPAppendix E4STI-SP001 Portable Container Monthly Inspection Checklist	on Checklist	
Doc # E 260 E4-R	Revision Date	08/09/2013		Revision	1	Status	۳ 	Released
Document Owner		Clark, Michael	ael					
Appendix E4:	STI	001 Po	rtable	Contain	<u>er Month</u>	SP001 Portable Container Monthly Inspection Checklist	on Chec	<u>cklist</u>
General Inspection Information:	tion:							
Inspection Date:		Retain L	Retain Until Date:		(36 1	(36 months from inspection date)	ı date)	1.00 1.1
Prior Inspection Date:		Inspecto	Inspector Name:					
Containers Inspected (ID #'s):								
Inspection Guidance:								
	in this Standard, follo is intended for moni ned by an owner's ins	w the manufa toring the exte spector who is	icturer recon srnal AST co familiar with	nmended inspe indition and its the site and ca	ction/testing sch containment stru an identify chang	follow the manufacturer recommended inspection/testing schedules and procedures. nonitoring the external AST condition and its containment structure. This visual inspe s inspector who is familiar with the site and can identify changes and developing prob	res. spection does r problems.	not require a Certifie
<ul> <li>(*) designates an item in a non-conformance status. This indicates that action is required to address a problem.</li> <li>Non-conforming items <u>important to tank or containment integrity</u> require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.</li> <li>Retain the completed checklists for 36 months.</li> </ul>	ron-conformance sta rtant to tank or contai mine the corrective a lists for 36 months.	ttus. This indic inment integrit ction. Note th∈	ates that act <u>Y</u> require evo non-confor	tion is required aluation by an ( mance and cor	status. This indicates that action is required to address a problem. <u>Intainment integrity</u> require evaluation by an engineer experienced e action. Note the non-conformance and corresponding corrective s.	blem. nced in AST design ective action in the c	, a Certified Ins comment sectio	spector, or a tank n.
Item	Area:	<u> </u>	Area:		Area:		Area:	
<b>1.0 AST Containment/Storage Area</b>								
1.1 ASTs within designated storage area?	Yes No*	*	Yes	No*	□Yes	×oN	Yes	*oZ
<ol> <li>Debris, spills, or other fire hazards in containment or storage area?</li> </ol>	□Yes* □No		Yes*	No	_Yes*	No	Yes*	So
1.3 Water in outdoor secondary containment?	Tes* No		□Yes*	No	□Yes*	No	□Yes*	No
<ol> <li>1.4 Drain valves operable and in a closed position?</li> </ol>	□Yes □No*	*	Yes*	No	∏Yes*	No	∏Yes*	No
<ol> <li>Egress pathways clear and gates/doors operable?</li> </ol>	□Yes	*	Yes*	No	⊡Yes*	NO	_Yes*	٥No

AST INSPECTION STANDARD PAGE 1 of 2 COPYRIGHT© 2011 Steel Tank Institute

SEPTEMBER 2011

רפורפו פוש זה אמת זוה לה האסראר אמוער ער זה איז אל היה או או אווארי או אוואר או אוואר או אוואר או אוואר או אווא

K	Document Title		NSHI SPCCF	-Append	ix E4STI-SP00	NSHI SPCCPAppendix E4STI-SP001 Portable Container Monthly Inspection Checklist	er Monthly Inspecti	on Checklist	
Doc #	E 260 E4-R	Revision Date	08/09/2013		Revision	-	Status		Released
	Document Owner		Clark, Michael						
	ltem	Area:	Area:	ä.		Area:		Area:	
2.0 Leal	2.0 Leak Detection								
2.1Visib lea coi sto	2.1Visible signs of leakage around the container or storage area?	Yes*		∏Yes*	N	Yes*	N	□Yes*	No
3.0 Container 3.0 Noticeabl distortion	ontainer Noticeable container distortions, buckling,	□Yes*		⊡Yes*	No	□ Yes*	No	□Yes*	No
denting of Comments:	nting or bulging?								

SEPTEMBER 2011

AST INSPECTION STANDARD PAGE 2 of 2 COPYRIGHT© 2011 Steel Tank Institute

----

		and the second s					
Doc # E 260 F-R	œ	Revision Date	08/09/2013	Revision	-1	Status	Released
Document Owner	it Owner		Clark, Michael				
Appendi	ix F: Re(	Appendix F: Record of Sec	condary Containment Drainage	ainment Dr	ainage		
This record	must be con	npleted when ra	This record must be completed when rainwater is pumped or discharged from secondary containment <u>to the ground</u>	or discharged fron	n secondary cor	ntainment <u>to</u>	the ground.
Date	Time	Oil Present (Y or N)	Quantity Removed (gal)	Comments (weather, activity, etc.)	ivity, etc.)		Signature

NSHI SPCCP--Appendix F--Drainage Release Form

Document Title

2

A	Document Title		NSHI SPCCPApp	endix GSubstantial	Harm Determination	n008053.docx	
Doc #	E 260 G-R	Revision Date	08/09/2013	Revision	1	Status	Released
	Document Owner		Clark, Michael				· · · · · · · · · · · · · · · · · · ·

### Appendix G: Substantial Harm Determination

No 🗆

Facility Name:

Facility Address:

Yes 🗆

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?

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 storage tank area?

Yes 🗆 No 🗆

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 (as calculated using the appropriate formula in 40 CFR part 112 Appendix C, Attachment C-III or a comparable formula) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?

Yes No No A. 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 (as calculated using the appropriate formula in 40 CFR part 112 Appendix C, Attachment C-III or a comparable formula) such that a discharge from the facility would shut down a public drinking water intake?

Yes No No 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 🗆

### 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.

Name: Ti	itle:
----------	-------

\_\_\_\_\_Date:\_\_\_\_\_

Signature

HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

A	Document Title	N	SHI SPCCPAppendix	H-Secondary Conta	inment Structure Volu	ime Determina	tion
Doc #	E 260 H-Rf	Revision Date	08/28/2013	Revision	5	Status	Released
	Document Owner		Clark, Michael				

## Appendix H: Secondary Containment Structure Volume Determination

The Secondary Containment structure is designed to enclose all operating equipment, including all flow and gathering pipes, storage tanks, and process flow-through equipment. The structure is also designed to provide storage for totes and barrels of oils and operating fluids. The structure will also fully accommodate bulk loading and unloading.



### Calculation of Natural Soda, Inc. OSR Secondary Containment Sump Volume

### **Basis:**

1. Outisde dimensions of Secondary Containment are 100 feet wide by 100 feet long (reference sketch titled "Secondary Containment Layout," Rev. A, 08/10/13.

2. Requirement for sump volume is that it must be sufficiently large to contain the rainfall from a 25 year, 24 hour rainfall event PLUS the volume of the largest vessel (either permanent or temporary) inside the containment. The rainfall from a 25 year, 24 hour rainfall event for the site location is 2.2 inches (reference information provided by Natural Soda, Inc. in email dated 08/05/13). A rainfall total of 3.0 inches will be used as the basis for this calculation.

3. For the purposes of this calculation, the largest vessel expected inside this containment is assumed to be a 6,500 gallon tanker trailer. This is larger than the maximum process vessel size of 5,000 gallons (reference the Preliminary Equipment List, Rev. 2 for V-005 Hydrocarbon Storage Tank dimensions giving 5,000 gallons volume for this vessel).

### **Calculations:**

Sump volume required for rainfall event:

(100 feet) x (100 feet) x (3.0/12 feet) x (7.48 gallons/cubic foot) = 18,700 gallons for precipitation

2. Actual sump volume as shown in Secondary Containment Layout:

(92 feet) x (16 feet) x (2.5 feet) x (7.48 gallons/cubic foot) = 27,526 gallons actual sump volume

3. Volume of sump available for holding contents of largest vessel inside containment:

(27,526 gallons) - (18,700 gallons) =8,826 gallons

4. 8,826 gallons (sump volume available after rainfall event) > 6,500 gallons (size of largest vessel)

**Conclusion:** 

The sump dimensions shown on the Secondary Containment Layout meet the volume requirement.

HARD COPIES ARE NOT CONTROLLED REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

	Document Title	N	SHI SPCCPAppendix	HSecondary Contai	nment Structure Vol	ume Determinat	tion
Doc #	E 260 H-Rf	Revision Date	08/28/2013	Revision	5	Status	Released
	Document Owner		Clark, Michael		T T		

### Secondary Containment Structure

- Sump designed to contain spill from largest mobile vessel (bulk loading truck, 6500 gal) which will also contain largest fixed vessel (5,000 gal oil storage).
- Process Equipment Area is located upslope from Sump
- Totes and Drum storage located upslope from Sump
- Bulk Loading and Unloading is located upslope from Sump
- Upslope end of structure has no berm, allowing access to operations by mobile equipment
- Sides of structure will be of sufficient height to provide diversion of potential spill to Sump
- Sides of structure will be of earthen materials sufficient to contain spill until cleanup
- Down-slope end of structure will be of earthen materials sufficient to contain spill until cleanup



HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION

Dec/         E30014         Revenue Date         04003013         Revenue	Description         Earning         Image		Document Title		NSIII SPCCP-Appendix I-Review and Amendment Log	w and Amendment	Log	
Determent Owner         Clark, Mchand           Determent Owner         Clark, Mchand           Appendix I: SPCCP REVIEW AND AMENDMENT LOG           Appendix I: SPCCP will occur "when there is a change in facility design, construction, operation, or maintenance that materially affects its potential for a discharge." In addition, a complete review and revision of the SPCCP will occur at least once every five years. Review and revision of the SPCCP will be completed by the Business Support and Sustainability Manager.           Any modifications deemed necessary to the SPCCP will be completed within six months of the review T         Technical amendments to the SPCCP will be completed within six months of the review T           Any modifications deemed necessary to the SPCC plan will be implemented within six months of the review T         Technical amendments to the SPCC plan will be implemented within six months of the review T           Any modifications deemed necessary to the SPCC plan will be implemented within six months of the review T         Technical amendments to the SPCC plan will be recorded in the following log bala (i.e., storage equipment modifications, procedural or operational Engineer recetification shall be recorded in the following log Engineer. Documentation of reviews completed, amendments made and Professional Engineer recetification shall be recorded in the following log inference of the ravie           Date         Reviewer         Changes           Image:         Mane and Title         (if any)	Document Guard     Class Method       Appendix 1: SPCCP REVIEW AND AMENDMENT LOG       Appendix 1: SPCCP will occur "when there is a change in facility design, construction, or maintenance that materially affects is potential for a discharge." In addition, a complete review of the NHSI SPCCP will occur at least once every five years. Review and revision of the SPCCP will be completed by the Business Support and Sustainability Manager.       Any modifications deemed necessary to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be recorded in the following lengineer. Documentation of reviews completed, amendments made and Professional Engineer recertification shall be recorded in the following lengineer. Documentation of reviews completed, amendments made and Professional Engineer recertification shall be recorded in the following lengineer. Documentation of reviews completed, amendments made and Professional Engineer recertification shall be recorded in the following lengineer. Documentation of reviews completed, amendments made and Professional Engineer recertification shall be recorded in the following lengineer. Documentation of reviews completed, amendments made and Professional Engineer recertification shall be recorded in the following lengineer.	Doc #	T F 260 L-R		Revision		Status	Released
Appendix 1: SPCCP REVIEW AND AMENDMENT LOG         As mandated by 40 CFR 112.5, amendments to the NSHI SPCCP will occur "when there is a change in facility design, construction, operation, or maintenance that materially affects its potential for a discharge." In addition, a complete review of the NHSI SPCCP will occur at least once every five years. Review and revision of the SPCC will be completed by the Business Support and Sustainability Manager.         Any modifications deemed necessary to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan (i.e., storage equipment modifications, procedural or operational changes, etc.) will necessitate recertification by a licensed Professional Bagineer. Documentation of reviews completed, amendments made and Professional Engineer recertification shall be recorded in the following log         Date       Reviewer       Itany         Image:       Images       Images         Image and Trite       Infany)       Infany         Image and Trite       Infany)       Infany         Image and Trite       Infany       Infany         Image and Trite       Infany       Infany	Appendix I: SPCCP REVIEW AND AMENDMENT LOG         As mandated by 40 CFR 1125, amendments to the NSH1 SPCCP will occur "when there is a change in facility design, construction, operation, or an interance that materially affects its potential for a discharge." In addition, a complete review of the NHSI SPCCP will occur at least once cwoj tive years. Review and revision of the SPCCP will be completed within six months of the NHSI SPCCP will occur at least once cwoj tive years. Review and revision of the SPCC Palm will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within the following to the standard plan (i.e., Storage equipment modifications, proceedual or operational changes, etc.) will necessitate recertification shall be recorded in the following to have and Tule         Date       Implemented within six months of the review. Technical amendments to the SPCC plan will be represed proceedual or operational changes, etc.) will necessitate recertification shall be recorded in the following to haversed to the SPCC plan will be recorded in the following to the s		Document Owner					
As mandated by 40 CFR 11.2.5, amendments to the NSHI SPCCP will occur "when there is a change in facility design, construction, operation, or maintenance that materially affects its potential for a discharge." In addition, a complete review of the NHSI SPCCP will occur at least once every five years. Review and revision of the SPCC Pain will be completed by the Business Support and Sustainability Manager. Any modifications deemed necessary to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan (i.e., storage equipment modifications, procedural or operational changes, etc.) will necessitate recertification shall be recorded in the following log Engineer. Documentation of reviews completed, amendments made and Professional Engineer recertification shall be recorded in the following log Name and Title (if any) (if	As nandated by 40 CFR 112.5, amendments to the NSHI SPCCP will occur "when there is a change in facility design, construction, operation, or maintenance that materially affects its potential for a discharge." In addition, a complete review of the NHSI SPCCP will occur at least once evep tive years. Review and revision of the SPCCP will be completed by the Business Support and Sustainability Manager. Any modifications deemed necessary to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan will be completed, amendments made and Professional Engineer recertification shall be recorded in the following tegine recent in the implementation of reviewer in the second second and professional Engineer recertification shall be recorded in the following tegine and and a state and Professional Engineer recertification shall be recorded in the following tegine and and and Professional Engineer recertification shall be recorded in the following tegine and and professional Engineer professional Engineer in the main and Trite in the main and the main and the second and professional Engineer professional Engineer in the endine and Trite in the endine			Appendix I: SPCCP RE	VIEW AND AMENI	DMENT	LOG	
Any modifications deemed necessary to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan (i.e., storage equipment modifications, procedural or operational changes, etc.) will necessitate recertification by a licensed Professional Engineer. Documentation of reviews completed, amendments made and Professional Engineer recertification shall be recorded in the following log Date Reviewer (france) (frany) (frany) (frany) (frany) (frany) (frank) (fra	Any modifications deemed necessary to the SPCC plan will be implemented within six months of the review. Technical amendments to the SPCC plan (i.e., storage equipment modifications, procedural or operational changes, etc.) will necessitate recertification by a licensed Professional Engineer. Documentation of reviews completed, amendments made and Professional Engineer recertification shall be recorded in the following lo bate Name and Title (if any) (if any	As mandat maintenan five years.	ted by 40 CFR 112.5 ce that materially aff Review and revisio	", amendments to the NSHI SPCCP wi fects its potential for a discharge." In n of the SPCCP will be completed by	ll occur "when there is a cha addition, a complete review the Business Support and Si	ange in facility of the NHSI 3 ustainability N	y design, constr SPCCP will occ Manager.	uction, operation, or cur at least once every
Reviewer     Changes       Name and Title     (if any)       (if any)     (if any)	Reviewer     Changes     Actions needed       Name and Title     (if any)       Image: Image of the state of the	Any modi plan (i.e., 5 Engineer.	fications deemed nec storage equipment m Documentation of re	cessary to the SPCC plan will be imple iodifications, procedural or operationa eviews completed, amendments made	emented within six months o I changes, etc.) will necessit and Professional Engineer r	of the review. tate recertifica recertification	Technical ame ttion by a licens shall be record	ndments to the SPCC ed Professional ed in the following log
		Date	Reviewer Name and Title	Changes (if any)	Ac (if	ctions needed any)		PE Cert./Date or n/a

HARD COPIES ARE NOT CONTROLLED. REFER TO ELECTRONIC MEDIA FOR MOST CURRENT REVISION.

the state of the s