
APPENDIX B

SUBSTANTIAL HARM DETERMINATION

Facility Name: Wilson City Station

1. Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons? **Yes**

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? **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 such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments? **Yes**

4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility would shut down a public drinking water intake? **Yes**

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? **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.

Signature

Facility Manager
Title

Name (type or print)

May 12, 2003
Date

APPENDIX C

Facility Inspection Checklists

The following checklists are to be used for monthly and annual facility-conducted inspections. Completed checklists must be signed by the inspector and maintained at the facility, with this SPCC Plan, for at least three years.

Monthly Inspection Checklist

This inspection record must be completed each month except the month in which an annual inspection is performed. Provide further description and comments, if necessary, on a separate sheet of paper and attach to this sheet. *Any item that receives “yes” as an answer must be described and addressed immediately.

	Y*	N	Description & Comments
Storage tanks			
Tank surfaces show signs of leakage			
Tanks are damaged, rusted or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Vents are obstructed			
Secondary containment is damaged or stained			
Water/product in interstice of double-walled tank			
Dike drainage valve is open or is not locked			
Piping			
Valve seals, gaskets, or other appurtenances are leaking			
Pipelines or supports are damaged or deteriorated			
Joints, valves and other appurtenances are leaking			
Buried piping is exposed			
Loading/unloading and transfer equipment			
Loading/unloading rack is damaged or deteriorated			
Connections are not capped or blank-flanged			
Secondary containment is damaged or stained			
Berm drainage valve is open or is not locked			
Oil/water separator			
Oil/water separator > 2 inches of accumulated oil			
Oil/water separator effluent has a sheen			
Security			
Fencing, gates, or lighting is non-functional			
Pumps and valves are locked if not in use			
Response Equipment			
Response equipment inventory is complete			

Date: _____

Signature: _____

Annual Facility Inspection Checklist

This inspection record must be completed each year. If any response requires further elaboration, provide comments in Description & Comments space provided. Further description and comments, if necessary, must be provided on a separate sheet of paper and attached to this sheet.
 *Any item that receives “yes” as an answer must be described and addressed immediately.

	Y*	N	Description & Comments
Storage tanks			
Tank #1			
Tank surfaces show signs of leakage			
Tank is damaged, rusted or deteriorated			
Bolts, rivets or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Vents are obstructed			
Tank #2			
Tank surfaces show signs of leakage			
Tank is damaged, rusted, or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Vents are obstructed			
Tank #3			
Tank surfaces show signs of leakage			
Tank is damaged, rusted, or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Vents are obstructed			
Tank #4			
Tank surfaces show signs of leakage			
Tank is damaged, rusted or deteriorated			
Bolts, rivets or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			

	Y*	N	Description & Comments
Level gauges or alarms are inoperative			
Vents are obstructed			
Oil is present in the interstice			
Tank #5			
Tank surfaces show signs of leakage			
Tank is damaged, rusted, or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Leakage in exhaust from heating coils			
Concrete bund			
Secondary containment is stained			
Bund drainage valve is open or is not locked			
Bund walls or floors are cracked or are separating			
Bund is not retaining water (following large rainfall)			
Piping			
Valve seals or gaskets are leaking			
Pipelines or supports are damaged or deteriorated			
Joints, valves and other appurtenances are leaking			
Buried piping is exposed			
Out-of-service pipes are not capped			
Warning signs are missing or damaged			
Loading/unloading and transfer equipment			
Loading/unloading rack is damaged or deteriorated			
Connections are not capped or blank-flanged			
Rollover berm is damaged or stained			
Berm drainage valve is open or is not locked			
Drip pans have accumulated oil or are leaking			
Oil/water separator			
Oil/water separator > 2 inches of accumulated oil			
Oil/water separator effluent has a sheen			
Security			
Fencing, gates, or lighting is non-functional			
Pumps and valves are not locked (and not in use)			

	Y*	N	Description & Comments
Response equipment			
Response equipment inventory is incomplete			

Annual reminders:

- < Hold SPCC Briefing for all oil-handling personnel (and update briefing log in the Plan);
- < Check contact information for key employees and response/cleanup contractors and update them in the Plan as needed;

Additional Remarks:

Date: _____

Signature: _____

APPENDIX D

Record of Containment Dike Drainage

This record must be completed when rainwater from diked areas is drained into a storm drain or into an open watercourse, lake, or pond, and bypasses the water treatment system. The bypass valve must normally be sealed in closed position. It must be opened and resealed following drainage under responsible supervision.

Date	Bund Area	Presence of	Started	Time	Signature

APPENDIX E

**Record of Annual Discharge Prevention
Briefings and Training**

Briefings will be scheduled and conducted by the facility owner or operator for operating personnel at regular intervals to ensure adequate understanding of this SPCC Plan. The briefings will also highlight and describe known discharge events or failures, malfunctioning components, and recently implemented precautionary measures and best practices. Personnel will also be instructed in operation and maintenance of equipment to prevent the discharge of oil, and in applicable pollution laws, rules, and regulations. Facility operators and other personnel will have an opportunity during the briefings to share recommendations concerning health, safety, and environmental issues encountered during facility operations.

Date	Subjects Covered	Employees in Attendance	Instructor(s)

APPENDIX F

Calculation of Secondary Containment Capacity

The maximum 24-hour rainfall recorded in the last 25 years at this location is 10 inches.

Bulk Storage Bund

The bund area in the event of a catastrophic event can contain more than 110% capacity of the largest tank ($375 * 150 * 3.5 \text{ ft} = 196,875 \text{ cubic ft}$; $196,875 \text{ cu ft} * 7.48 \text{ gal/cu ft} = 1,472,625 \text{ gal}$). In the event of a discharge or fuel leak, the discharged product will be contained within the bund wall and subsequently pumped out for safe disposal. In addition, the individual bulk storage tanks will be monitored to avoid over-fill by appropriate instrumentation and sensors.

The berm therefore provides sufficient storage capacity to contain both the largest compartment of tank trucks loading/unloading at the facility, and the volume of precipitation that enters the berm.

APPENDIX G

Records of Tank Integrity and Pressure Tests

Attach copies of official records of tank integrity and pressure tests.

APPENDIX H

Emergency Contacts

Designated person responsible for spill prevention: Kermit McCartney, Facility Manager

EMERGENCY TELEPHONE NUMBERS:

FACILITY

Kermit McCartney, Facility Manager xxx-xxx-5550

EMERGENCY RESPONSE

BEC Health& Safety Department xxx-xxx-5550

Local Medical Facility Hospital xxx-xxx-5550

RESPONSE/CLEANUP CONTRACTORS

Bay Chem Spill Technologies, Nassau xxx-xxx-5550

Spurtree, Nassau xxx-xxx-5550

NOTIFICATION

Ministry of Transport & Aviation xxx-xxx-5550

Port Authority of Nassau xxx-xxx-5550

Bahamas Defense Force xxx-xxx-5550

APPENDIX I

Discharge Notification Form

Part A: Discharge Information		
General information when reporting a spill to outside authorities: Name: Wilson City Station Address: Abaco, Bahamas Telephone: (781) 555-5556 Owner/Operator: BEC Primary Contact: Kermit McCartney, Facility Manager Work: (781)555-5550 Cell (24 hrs): (781)555-5559		
Type of oil:	Discharge Date and Time:	
Quantity released:	Discovery Date and Time:	
Quantity released to a water body:	Discharge Duration:	
Location/Source:		
Actions taken to stop, remove, and mitigate impacts of the discharge:		
Affected media: G air G storm water sewer/POTW G water G dike/berm/oil-water separator G soil G other: _____		
Notification person:	Telephone contact: Business: 24-hr:	
Nature of discharges, environmental/health effects, and damages:		
Injuries, fatalities or evacuation required?		
Part B: Notification Checklist		
	Date and time	Name of person receiving call
Discharge in any amount		
Kermit McCartney, Facility Manager and Response Coordinator (781) 555-5550 / (781) 555-5559		

Discharge in amount exceeding 10 gallons and not affecting a waterbody or groundwater		
BEC Environ. Safety Brent Williamson xxx-xxx-5550		
DEH (xxx-xxx-5550		
Discharge in any amount and affecting (or threatening to affect) a waterbody		
Ministry of Transport & Aviation Permanent Secretary (xxx-xxx-5550		
Massachusetts Department of Environmental Protection xxx-xxx-5550		
Port Authority xxx-xxx-5550		
*Marsh Harbour Plant Operator: xxx-xxx-5550		
Water & Sewerage Plant Plant Operator: xxx-xxx-5550		
Bay Chem SpurTree xxx-xxx-5550		

* The POTW should be notified of a discharge only if oil has reached or threatens sewer drains that connect to the POTW collection system.

APPENDIX J

Discharge Response Equipment Inventory

The discharge response equipment inventory is verified during the monthly inspection and must be replenished as needed.

Tank Truck Loading/Unloading Area

G	Empty 55-gallons drums to hold contaminated material	4
G	Loose absorbent material	200 pounds
G	Absorbent pads	3 boxes
G	Nitrile gloves	6 pairs
G	Neoprene gloves	6 pairs
G	Vinyl/PVC pull-on overboots	6 pairs
G	Non-sparking shovels	3
G	Brooms	3
G	Drain seals or mats	2
G	Sand bags	12

Maintenance Building

G	Empty 55-gallons drums to hold contaminated material	1
G	Loose absorbent material	50 pounds
G	Absorbent pads	1 box
G	Nitrile gloves	2 pairs
G	Neoprene gloves	2 pairs
G	Vinyl/PVC pull-on overboots	2 pairs
G	Non-sparking shovels	1
G	Brooms	1
G	Drain seals or mats	1

APPENDIX K

Agency Notification Standard Report

Information contained in this report, and any supporting documentation, must be submitted to the EPA Region 1 Regional Administrator, and to MADEP, within 60 days of the qualifying discharge incident.

Facility:	Wilson City Station
Owner/operator:	BEC
Name of person filing report:	
Location:	Wilson City, Abaco
Maximum storage capacity:	2,300.000 gallons
Daily throughput:	Xx,xxx gallons
Nature of qualifying incident(s):	
G Discharge to navigable waters or adjoining shorelines exceeding 1,000 gallons G Second discharge exceeding 42 gallons within a 12-month period.	
Description of facility (attach maps, flow diagrams, and topographical maps):	
The power plant site is located at the southeastern intersection of Great Abaco Road and Wilson City Road. The proposed power plant will include the powerhouse within which will be installed 4 x 12 Megawatt (MW) engines fueled by Heavy Fuel Oil (Bunker C)..	
A bunded tank farm is proposed, which will include two (2) 1.0 million-gallon HFO tanks, one (1) 250,000-gallon Automotive Diesel Oil (ADO) storage tank, one (1) 50,000-gallon HFO pre-centrifuge tank, a lube oil storage tank, and a sludge tank	

Agency Notification Standard Report (cont'd)
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Cause of the discharge(s), including a failure analysis of the system and subsystems in which the failure occurred:

Corrective actions and countermeasures taken, including a description of equipment repairs and replacements:
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Additional preventive measures taken or contemplated to minimize possibility of recurrence:

Other pertinent information:

Table 1-1: Plan Review Log

By	Date	Activity	PE certification required?	Comments
B. Willianson	June 2008	Prepare Plan Start of Operations	Recommneded. But not Required	Initial SPCC Plan.
TBA	June 2009	Scheduled review	No	As required