

DRAFT HAZARDOUS SUBSTANCES CONTROL PLAN

BLUE LAKE HYDROELECTRIC PROJECT EXPANSION

FERC No. P-2230

Prepared By:

City and Borough of Sitka Electric Department

Sitka, Alaska

June, 2012

INTRODUCTION

The City and Borough of Sitka, Alaska ("City"), owns and operates the Blue Lake Hydroelectric Project ("Project, FERC No. 2230) located near Sitka, Alaska. The 6.5 megawatt project is located approximately 7 miles southeast of Sitka.

For the past 3 years, the City has conducted engineering and environmental studies to support issuance of a capacity related amendment to the Project's FERC license to modify the Project including but not limited to the following:

- Raise the Project dam by as much as 83 feet to increase reservoir capacity and generating head;
- Construct a new and larger powerhouse and install new turbine generators.
- Construct a new surge chamber near the powerhouse; and
- Construct a new water intake in Blue Lake at a different location from the existing intake.

NEED for THIS DRAFT PLAN

The City submitted Draft and Final Amendment Applications (the DAA and FAA, respectively) to the Federal Energy Regulatory Commission (FERC) in Washington D.C. FERC issued the Amendment Order on May 31, 2012. The Amendment Order Article 405 requires the submittal of a Hazardous Substance Plan per Forest Service 4(e) condition no. 3.

NAME & OWNERSHIP

The exact name, business address, and telephone number of the licensee is:

City and Borough of Sitka
100 Lincoln Street
Sitka, Alaska 99835
907-747-3294.

The exact name, business address and phone number of each person authorized to act as agent for the licensee are:

James E. Dinley, Municipal Administrator
100 Lincoln Street
Sitka, Alaska 99835

Phone 907-747-1808
E-mail: jimdinley@cityofsitka.com

Christopher Brewton, Utility Director, Electric Department
City and Borough of Sitka
105 Jarvis St.
Sitka, Alaska 99835

Phone: 907- 747- 4000 Electric Department
907-747-1870 Christopher Brewton
Fax: 907-747-3208 Electric Department
E-mail: chrisb@cityofsitka.com

PAST SPILL EXPERIENCE

The existing Blue Lake Hydro Plant has a Spill Prevention Control and Countermeasure Plan (SPCC) that was updated in 2003. There have been no reportable spill incidents since the project start-up in 1961. The SPCC will be updated by the City incorporating the new equipment installed for the Blue Lake Project Expansion following commissioning of the expanded project when the oil capacity of the equipment is known.

CITY HAZARD RESPONSE PLANS

The City and Borough of Sitka maintains a Oil and Hazardous Substances Emergency Operations Plan. The Sitka firehall may be contacted at 911 for assistance and response to spills of hazardous substances if required.

The Blue Lake Hydro Project powerhouse has a SPCC the SPCC lists the oil spill response materials available at the Blue Lake powerhouse.

PROPOSED SPILL PREVENTION & COUNTERMEASURE PROCEDURES

The following spill prevention procedures will be employed during construction:

Diesel Fuel and Gasoline for Construction Equipment

Construction equipment will be refueled by a small tank, approximately 100 gallons, mounted on a small vehicle, which will carry a supply of oil-absorbent materials. Fuel will be stored on site in a double walled tank within a containment berm. Fuel will be transferred from Sitka via a tanker truck with multiple compartments allowing transport of different types of fuel. Refueling will take place at designated fueling sites that will include impervious tarpaulins and absorbent material around perimeter (including at the storage tank). When not in use, the fueling truck will have tarpaulin placed over it securely, so that winds won't remove or reduce its effectiveness. When refueling, the nozzle will be covered with oil absorbent pad to and from vehicles. A five gallon bucket

will be used to store the nozzle on the fuel truck, which will be secured to the vehicle, and will be emptied on a regular basis.

One half bale of absorbent pads, or more, to be with the fuel truck at all times. There will be no less than six absorbent pads in each vehicle or machinery on the job site. Generator sets will be refueled by hand with pads present, if required. Gasoline for construction equipment, i.e. chainsaws, vehicles, etc., will be stored in 1-5 gallon approved containers, either at the staging area or at other fueling sites as determined during construction for storage. Adjustments to be determined, as required.

Hydraulic Fluid and Lubricating Oils for Construction Equipment

Construction equipment will be required by contract to be kept free of leaks of hydraulic fluid and lubricating oils. If leaks develop during the course of construction, the equipment will be discontinued from activity until the leaks are repaired. Repairs will be made either on site, at the fuels storage site, or other designated sites as determined during construction. Each piece of construction equipment will carry oil-absorbent materials and duct tape for immediate response.

Concrete

Concrete trucks will be required to wash out only in designated areas. The washout area(s) will be bermed to prevent material from escaping into surface watercourses.

Paints (latex, enamel, epoxy, polyurethane)

Paint products will be kept in their original containers with the original manufactures' label, and will be stored in a covered storage or work area or at other designated sites, as determined during construction. All containers will be tightly sealed when not in use. Manufacturers' recommendations for proper use, storage, and disposal will be followed.

Cleaning solvents

Cleaning solvents will be kept in their original containers with the original manufactures' label, and will be stored in a covered storage or work area or at other designated sites as determined during construction. All containers will be tightly sealed when not in use. Manufacturers' recommendations for proper use and disposal will be followed.

Epoxy

Epoxy resin and catalysts will be kept in their original containers with the original manufactures' label, and will be stored in a covered storage or work area or at other designated sites as determined during construction. All containers will be tightly sealed

when not in use. Manufacturers' recommendations for proper use and disposal will be followed.

SPILL RESPONSE PROCEDURES

In the event of a spill during construction, the course of action will be:

First – minimize or stop the spill

Second – report the spill to appropriate agency

Third – clean up the spill

Fourth – document the spill (nature, location, time, date, size, action taken)

Fifth – take appropriate measures to insure prevention of further spills

AGENCIES to be NOTIFIED

Agencies to be notified in the event of a major spill or discharge are listed below. Some reporting is mandatory and requires immediate notification. However, sound judgment must be used by those discovering the spill to discern additional impact to the environment created by delaying immediate deployment of response gear in favor of notification.

Alaska State and Federal Agencies

Alaska Dept. of Environmental Conservation (ADEC)	(907) 465-5340
ADEC Spill Response Center	(800) 478-9300
U.S. Forest Service, Sitka	(907) 747-6671
U.S. Environmental Protection Agency Alaska Operations Office	(907) 271-5083
Alaska Dept. of Fish & Game (ADF&G)	(907) 747-6688
US Coast Guard National Response Center	(800) 424-8802

City of Sitka

Spill Management Personnel City of Sitka Office	911
Blue Lake Hydro Plant	(907) 747-5733
Electric Department Office - Sitka	(907) 747-4000
Christopher Brewton, Director	(907) 747-1870
Cell	(907) 738-4295

CONTAINMENT EQUIPMENT to be KEPT at each CONSTRUCTION SITE

<u>MATERIAL ITEMS</u>	<u>QUANTITY</u>
Bag of Oil Absorbent Sheets, i.e. 100 12"x12" pads; for absorbing fluids	1
Hardware Cloth; 3'x30' rolls, to mop up drips, spills, etc., and to prevent same	30'
Pitchfork; for handling oil-containment booms or other oil soaked material	1
Wood Stakes; to anchor straw bales or impervious barriers, etc.	6
Polyethylene Sheeting; 6-mil 50'x100' roll	1
Square Shaped Shovel; to trench or berm around containment area	2
Round Shaped Shovel; to trench or berm around containment area	2
Rake; to move about oil-absorbent booms or materials	2
Box Cutter, with extra blades; to cut fabric, twin, etc.	1
Scissors; for cutting fabric, twin, etc.	1
Hammer, 20 Oz; to pound stakes into ground, etc.	1
Oil Containment Boom; to contain spills or leaks	4
Poly Fish line; multiuse – to tie down covers to containers, absorbent pads, etc.	1 box
3 mil Plastic Bag 32" X 52"; to place soiled absorbent pads/materials in	12
Drum Contents Label; to prevent mixing of reactive chemicals	4
55 Gallon Drum with Lid; for disposing of oil soaked sheets, booms, or other materials used in the handling of hazardous substances	4
One Gallon Can; to act as sealable bucket for disposing of small oil-soaked materials	4
50 lb Bag of Absorbent Materials, 3'x100'roll; for absorbing fluids	2
Disposal Non-breathable Coveralls, Large; incase of large spill to protect workers	2 pr.
Disposable Boots; to protect feet of those cleaning up spill, if needed	2 pr.
Disposable Gloves; to protect hands while handling hazardous substances	2 pr.
Respirator (masks); in case of significant cleanup, or in confined space with fumes	1 box

HAZARDOUS MATERIAL PLAN

PETROLEUM PRODUCTS

All petroleum product containers will be tightly sealed and labeled for contents. All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. All construction equipment will have oil-absorbent material and duct tape on hand.

Fuel oil will be stored in 55 gallon drums placed on impermeable material, i.e. thick plastic sheets, and will either be surrounded by a dike with this same material or be surrounded by absorbent material on the impermeable material. Storage area should have temporary structure to cover or tarps covering fuel drums to keep out precipitation that may carry oil away from storage area.

FERTILIZERS

Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Any contents or partially used bags of fertilizer will be transferred to a sealable container, to avoid spills. Fertilizer will be stored to prevent precipitation or runoff from wetting the bags causing leaching of the fertilizer into the water table.

PAINTS

All containers will be tightly sealed and stored on impermeable material and out of precipitation when not required for use. Excess paints will be properly disposed of according to manufacturers' instructions or State and local regulations.

CLEANING SOLVENTS

All containers will be tightly sealed and stored when not in use. When in use, proper ventilation shall be maintained.

HAZARDOUS MATERIAL MANAGEMENT PRACTICES

Following are the material management practices that will be used to reduce the risk of spill or other accidental exposure of materials.

GOOD HOUSEKEEPING

The following good housekeeping practices will be followed on site during the construction project:

1. An effort will be made to store only enough product to do the job;
2. All materials stored on site will be stored in a neat, orderly manner in their appropriate containers;
3. Product will be kept in their original containers with the original manufactures' label;
4. Manufacturers' recommendations for proper use and disposal will be followed;
5. The site will be inspected daily to ensure proper use and disposal of materials.

HAZARDOUS PRODUCT

These practices are used to reduce the risk associated with hazardous materials:

1. Products will be kept in original containers unless they are not resealable;
2. Original labels and material safety data sheets will be retained on site;
3. If surplus product must be disposed of, manufacturers' or local and State recommended methods for proper disposal will be followed.

INVENTORY FOR SPILL PREVENTION PLAN

The materials or substances listed below are expected to be present on site during construction:

1. Concrete, (portland cement products, cement admixtures)
2. Paints (enamel, two part epoxy, polyurethane, and latex)
3. Epoxy grout and adhesives
4. Vegetation seeds
5. Fertilizer
6. Petroleum Based Products
7. Cleaning Solvents
8. Wood
9. Steel Pipe
10. Roofing Materials
11. Plastic Conduit Pipe
12. Electrical Wire
13. PVC Cement Glue
14. Building Insulation Material
15. Explosives will be described in the Blasting Plan
16. HDPE pipe
17. Structural Steel