City of Columbus Division of Sewerage & Drainage Pretreatment Section

SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN

SPCC PLAN

1145.36 SPILL PREVENTION, CONTROL AND COUNTERMEASURES PLANS:

The Director may require any User, that he deems has potential to adversely affect the sewerage system, appurtenant devices, or POTW resultant sludges and effluents, by accidental or intentional release of any toxic or other deleterious substance on the User's premises; to develop, submit, and maintain a Spill Prevention, Control, and Countermeasures (SPCC) Plan. The elements of such plan shall be as established in regulations by the Director.

DIRECTOR'S REGULATION, Published 12/11/93, Effective 12/21/93:

SPCC Plans must include all minimum elements as published in the City Bulletin on 11/24/90. Additionally a Certification Statement must accompany the submittal such as:

"I have reviewed the attached Spill Preve	ention Control	and Countermeasure Plan for
Company Name . The facilit	ty has been ex	amined and I certify that the SPCC Plan is prepared in
accordance with good engineering practi	ices."	
Reviewed and approved by:	_, P.E.	Registration Number:

All SPCC Plans need updated every 3 years. For changes of phone numbers, names and responsibility designations, no certification statement is required. A Certification Statement is required for any changes regarding technical matters, only.

DIRECTOR'S REGULATION, Published 11/24/90, Effective 12/3/90:

SPCC plans must contain, at a minimum, the following elements:

- (A) description of discharge practices, including non-routine batch discharges;
- (B) description and quantity of stored chemicals;
- (C) procedures for promptly notifying the POTW of slug discharges as defined under the Definition Section of City Code Chapter 1145 with procedures for follow-up, written notification within five (5) days;
- (D) procedures used to prevent accidental spills, including maintenance of storage areas, handling and transfer of materials, loading and unloading operations, and control of plant site run-off;
- (E) any necessary measures for building containment structures or providing containment equipment;
- (F) any necessary measures for controlling toxic organics (including solvents);
- (G) any necessary procedures and equipment for emergency response;
- (H) any necessary follow-up practices to limit the damage suffered by the POTW or the environment, and to prevent recurrence of the type of spill that occurred;
- (I) the name of the person responsible for developing, implementing, and maintaining the plan, and who will serve as the current contact person for the plan; and
- (J) any other element deemed necessary by the Director, subsequent to the review of circumstances existing at the subject premises.

The pages that follow will help prepare a SPCC Plan under Columbus City Code 1145.36 and for Slug Control Plans under 40 CFR 403.8 (f) (2) (v). Other related plans are Stormwater and RCRA Emergency/Contingency Plans.

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SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN OUTLINE

- 1) Regulatory Mandate and Purpose Columbus City Code 1145.36 and 40 CFR 403
- 2) Plan Availability (in house) and other agencies

3) Management Approval

- A) Written management commitment of manpower, equipment and materials with company official signature
- B) P.E. Certification
- C) RCRA Emergency/Contingency Plan statement, where applicable

4) Facility Information

- A) Name, location and history of facility
- B) Name, address and home telephone number of emergency, alternate and other shift coordinators
- C) List of emergency agencies and their telephone numbers
- D) Policies for notification of correct agency when emergency occurs
- E) List of required information when making an emergency call

5) Responsibilities of the emergency coordinator

- A) Background and responsibilities (derived from 40 CFR and City Code)
- B) When emergency occurs
- C) After the emergency reporting to appropriate agencies, list of required information

6) Facility Description

- A) Description of plant location and property configuration (schematic)
- B) Description of security measures
 - a) Fencing
 - b) Lighting
 - c) Alarm systems
 - d) Guards
 - e) entrance/exits and alternative accesses
- C) Internal communication system
- D) Housekeeping program
- E) Proper work practices company policies
 - a) General work practices
 - b) Protection of the employee
 - c) Safety
- F) Inspection procedures of process lines, tanks, pipe work, chemical storage areas, pretreatment facilities and hazardous waste storage
- G) Description of the sanitary and storm drainage system (schematic)
- Truck loading and unloading, including storm sewer arrangement in loading docks and policy for reporting hazardous material incidents
- I) Material compatibility company policies
- J) Spill cleanup contractor name and telephone number
- K) Spill and leak prevention policies, including inspection requirements
- L) Employee training program company policies

7) Prediction of spill parameters

- A) List of priority pollutants, with those on the premises marked
- B) Description of production lines, including locations and tank contents and volumes (schematics)
- C) General description of potential problems and planned remedies, **location maps** and information specific to:
 - a) Storage tanks underground, overhead and at ground level (site plan)
 - Chemical storage in the same room or area as boilers and/or steam generation or delivery system
 - c) Pipe work types of support, inspection procedures and schedules
 - d) Dikes at entrances and docks and how to prevent illicit spills from entry into storm sewer, sanitary sewer or ground
 - e) Channels where to locate and how to keep free from obstructions and debris
 - f) Pretreatment plant physical description, process description, chemicals used and stored in the area, tank contents and capacities and spill control procedures (site plan)

8) Hazardous material and waste storage

- A) In depth description of storage tanks
 - a) Materials of construction
 - b) Size and capacity
 - c) Contents
 - d) Type, overhead and underground
- B) Chemical storage areas, inside and outside (site plan)
 - a) Location, including satellite storage
 - b) Types of chemicals stored, by chemical 'families'
- Hazardous waste pads, description of location and containment dikes existing or proposed
 - a) Inside and outside hazardous waste drum storage
 - b) Inspection schedule of hazardous waste areas
 - c) Empty drum handling and disposal practices

Appendix A

- Location Maps security measures, sanitary and storm sewer drainage systems, chemical and hazardous waste storage areas, pretreatment plant
- 2) Schematics proposed alterations, production processes, containment arrangements and spill prevention arrangements

Appendix B – ongoing compliance documentation forms

- 1) Emergency response agencies and internal distribution
- 2) Spill incident report
- 3) Training documentation
- 4) Discharge incident reporting list and timetable city, state and federal

Appendix C – compliance maintenance

- 1) Corrective action plan for the next six months
- 2) Inspection checklist to be used by in-house personnel

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Plan Availability

A copy of this SPCC Plan will be available in the working hours ofam topm. Duringam, the Secondary Emergency Coordinate and implementation.	
Manageme	nt Approval
This SPCC Plan will be implemented as herein have the authority to commit (Company Name) health and safety and/or the environment.	
(Signature)	(Date)
(Name printed)	(Title)
P.E. Review and C	Certified Statement
"I have reviewed the attached Spill Prevention COMPANY NAME	ty has been examined and I certify that the
REVIEWED and APPROVED B	Y:
RCRA Emergency	/Contingency Plan
COMPANY NAME has a RCR the safe handling of hazardous materials and w containment and cleanup. Company procedure waste spill contingency, medical emergencies, fit. The RCRA Emergency/Contingency Plan an accessible to all employees during their working trained in the procedures to be implemented by	es for personal protective equipment, hazardous fire and evacuation among others are located in ad SPCC Plan will be kept in locations g hours. All supervisors will periodically be

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Facility Information

Name of Facility		
Address of Facility Telephone Number	EPA I.D. Number	
City of Columbus Industrial Wastewater Di Number		
Any other environmental permits Number	Expiration Date	
Emergency Coordinator		
Office Telephone #	Home Telephone #	
Alternate Emergency Coordinator		
Office Telephone #	Home Telephone #	
Secondary Emergency Coordinator		
Office Telephone #	Home Telephone #	

Emergency Telephone Numbers

FIRE DEPARTMENT	911
AMBULANCE SERVICE	911
POLICE DEPARTMENT	911
HOSPITAL	
HOSPITAL (Secondary)	
POISON CENTER	228-1323
OHIO STATE HIGHWAY PATROL	466-2660
OHIO EPA (Central Office)	728-3778
OHIO EPA EMERGENCY RESPONSE TEAM (24 Hours/day)	1-800-282-9378 224-0946
COLUMBUS PRETREATMENT SECTION	645-5876
SEWER MAINTENANCE SECTION (If no answer at Pretreatment)	645-7102
JACKSON PIKE WASTEWATER TREATMENT PLANT	645-3138
SOUTHERLY WASTEWATER TREATMENT PLANT	645-3248
COLUMBUS HEALTH DEPARTMENT	645-8191
NATIONAL RESPONSE CENTER (To report reportable quantity spills)	1-800-424-8802
EMERGENCY MANAGEMENT AGENCY (To report reportable quantity spills)	469-9700

NOTE: All area codes are 614 unless otherwise noted

Company policies to be followed when emergency occurs

- 1) In emergencies where there is danger of fire, explosion or toxic materials being discharged onto land, into air or water that would threaten human life, <u>call the fire</u> department first (911).
- 2) For emergencies that consist of liquid material spills that do not threaten human life or the environment, <u>call the City of Columbus Pretreatment Section at 645-5876</u>.
- 3) The City requires the generator to notify the Pretreatment Section at 645-5876, immediately of any discharge that gets into the sewer system, to enable countermeasures to be taken to minimize damage to the wastewater treatment system and/or the receiving waters. If no one is available to accept the telephone notification, call the Sewer Maintenance Section at 645-7102, which is answered twenty-four hours a day.
- 4) When reporting any discharge incident over the telephone (initial reporting requirement), give the following information:
 - A) Name of person making the report
 - B) Name and location of the facility
 - C) Telephone number where the person reporting can be reached
 - D) Date and time of discharge incident
 - E) Brief description of the incident and any possible hazards to human health and/or the environment
 - F) Estimated quantity of material or waste involved
 - G) Extent of contamination
 - Request that the fire chief report the incident to other appropriate emergency agencies

Emergency Coordinator Background and Responsibilities

At all times, there must be at least one (1) employee either on the facility premises or on call (i.e. available to respond to an emergency by reaching the facility within a short period of time) with the responsibility of coordinating all emergency response measures. This emergency coordinator must be thoroughly familiar with all aspects of the facilities Contingency Plan, SPCC Plan, all operations and activities at the facility, the location and characteristics of waste handled, the location of all records within the facility and the facility layout. In addition, this person must have the authority to commit the resources needed to carry out the Contingency Plan.

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When Emergency Occurs

Whenever there is an imminent or actual emergency situation, the Emergency Coordinator must immediately:

- 1) Activate facility alarms or communication systems to notify personnel
- 2) Notify local emergency response agencies

Whenever an emission, discharge, spill, fire or explosion occurs, the Emergency Coordinator must immediately:

1) Identify the character, exact source, amount and extent of the affected area

Concurrently, the Emergency Coordinator must assess possible hazards to human health or the environment that may result from the release, fire or explosion. This assessment must consider both direct and indirect effects (e.g. the effects of any toxic, irritating or asphyxiating gases that are generated, or the effects of any hazardous surface water runoff from water or chemical agents used to control fire and heat induced explosions).

If the Emergency Coordinator determines that the facility has had an emission, discharge, spill, fire or explosion, which would have the potential to threaten human health or the environment, the applicable local authorities must be notify immediately.

If the facility stops operations in response to a fire, explosion or release, the Emergency Coordinator must monitor for leaks, pressure buildup, gas generation or rupture in valves, pipes or other equipment, wherever this is appropriate.

Always use the standard reporting procedure (verbal and written)

- A) Name of person making the report
- B) Name and location of the facility
- C) Telephone number where the person reporting can be reached
- D) Date and time of discharge incident
- E) Brief description of the incident and any possible hazards to human health and/or the environment
- F) Estimated quantity of material or waste involved
- G) Extent of contamination
- H) Request that the fire chief report the incident to other appropriate emergency agencies

During the emergency, the coordinator must take all reasonable measures necessary to ensure that further discharge, fire or explosion do not occur, or spread to other materials or wastes at the facility. These measures shall include, where applicable:

- 1) Stopping manufacturing processes and operations
- 2) Collecting and containing released materials or wastes
- 3) Removing or isolating containers

After the Emergency

Immediately after an emergency, the Emergency Coordinator, with OEPA approval, must provide for treating, storing or disposal of residues, contaminated soil, etc., from an emission, discharge, spill, fire or explosion at the facility.

The Emergency Coordinator must ensure that, in the affected areas of the facility, no material or waste incompatible with the emitted or discharged residues is processed, stored, treated or disposed of until cleanup procedures are completed and all emergency equipment listed in the SPCC Plan is cleaned and fit for its intended use before normal operations are resumed.

Within fifteen (15) days of the incident, the Emergency Coordinator (or designee) must submit a written report of the incident to the **OEPA**, Central District Office, Division of Surface Water, Pretreatment Coordinator, 3232 Alum Creek Drive, Columbus Ohio 43207-3461. The report must include the following information:

- 1) Name, address and telephone number of the person filing the report
- 2) Name, address and telephone number of the facility at which the incident occurred
- 3) Date, time and location of the incident
- 4) A brief description of the circumstances surrounding the incident
- A description and estimated quantity, by weight or volume, of materials or wastes involved
- 6) An assessment of any contamination of land, water or air that has occurred due to the spill incident
- 7) Estimated quantity and disposition of recovered materials or wastes that resulted from the incident
- 8) A description of what actions the management of the facility intends to take to prevent a similar occurrence in the future

The City of Columbus further requires a written follow up report, filed by the generator within five (5) calendar days of the incident, with the Pretreatment Section. The report shall contain the following:

- 1) A description of the discharge, the cause of the upset and the upsets impact upon the user's compliance status.
- 2) The period of noncompliance, including the exact dates and times of noncompliance, and if the noncompliance continues, the time by which the noncompliance is expected to be corrected.
- 3) Any and all steps taken, or to be taken, to reduce, eliminate and prevent recurrence of the noncompliance.

This written report is to be sent to: City of Columbus

Sewerage and Drainage Division

Pretreatment Section

1250 Fairwood Avenue, Room 186

Columbus, Ohio 43206-3372

Compliance Maintenance – Inspection Checklist

The inspector shall note significant observations made during each inspection, as well as, corrective action to be taken, when and by whom.

It is recommended that the following be checked at least monthly, along with any corrective action called for during the previous inspection.

Check:

- 1) The integrity of containment structures
- 2) All pipe work and valves for leaks or potential failure (unions and valve seating)
- 3) All pipe work and plating tanks for corrosion
- 4) That all drains are operating properly
- 5) That all pits and floor trenches are clear of accumulated solids, etc.
- 6) Steam traps and steam heating coils
- 7) That all chemicals are in designated storage areas
- 8) That correct absorbents are available and in proper storage areas
- 9) That used absorbents are drummed and labeled correctly
- 10) That labels on chemical containers and tanks are properly attached and readable
- 11) That any chemicals in drums/tanks that have been set aside (or are no longer used) are properly labeled and the containers are closed or covered
- 12) Any unusual usage of a process chemical
- 13) That empty drums are inspected, cleaned and stored only in designated areas while awaiting removal
- 14) That all catch pits are clear of debris
- 15) That the integrity of chemical transfer practices is maintained, including overhead tank filling by suppliers
- Any unusual discoloration of floor and walls which could indicate leaks, or contamination sources
- 17) That the separation of regular trash from hazardous waste (such as filter elements) is assured
- 18) That cleanup of all leachate from dumpsters is assured
- 19) All gates, fencing and security systems for signs of vandalism
- 20) That all empty, open topped drums and/or tanks are properly stored
- 21) The integrity of plumbing of overhead chemical storage tanks
- 22) The correct operation of the discharge, flow measurement/sampling station
- 23) That hazardous waste storage is correct, removal offsite is timely and duly recorded in the RCRA hazardous waste notebook
- 24) That maintenance and operation of the pretreatment plant are sustained in accordance with good engineering practices
- 25) That nothing is placed so as to threaten the integrity of storm water drainage

NOTE: There may be other areas of concern to check periodically. Use this list as a guide and add to it as appropriate.

Description of Hazardous Materials and Waste Storage

The location of hazardous materials and/or waste storage may be found on the location map. This location map indicates all of the major process areas within the factory as well as the office complex.

Storage Tank Descriptions

Tan	k # and Construction	<u>Capacity</u>	<u>Contents</u>	<u>Type</u>
#1	Steel	5500 gal	Boiler blow down	Overhead
#2	Fiberglass	850 gal	Muriatic acid	Overhead
#3	Steel	900 gal	Sulfuric acid	Overhead
#4	Polypropylene	900 gal	Liquid caustic soda	Overhead
#5	Steel	1000 gal	Not in use	Roof top
#6	Fiberglass	1500 gal	Gasoline	Underground

Other areas of chemical/ waste storage, inside/outside the plant

<u>Area</u>	Types of Chemical stored
A	Acids (liquid) (Fluoroborates, Sulfate, Strippers)
В	Section a – Oxidizers
	Section b – Chromates
	Section c – Alkalies and bases
С	Brighteners and acids
D	Cyanides and Cleaner Storage (dry)
Ε	Empty Drums
F	Acids (liquid) and Alkalines
G	Hazardous Wastes
Н	Acids (liquid)
I	Sulfates (pretreatment plant)
J	Hazardous Waste Sludge
K	Proposed Hazardous Waste Pad
L	Miscellaneous substances in unsecured containers, all within the
	perimeter fence

[&]quot;Satellite" chemical storage throughout the production areas, for immediate use on the production line.

Training Documentation

name	
Length of employment	Date of Training
Location of training	
Name of trainer	
Subject covered:	
I attended the training session or	the date listed and have a reasonable
understanding of the subject cover	ered.
(Signature)	(Date)

Priority Pollutants

CAS #	POLLUTANT	CAS #	POLLUTANT		
<u>Acids (11)</u>		Base N	Base Neutrals (continued)		
95-57-8 120-83-2 105-67-9 534-52-1 51-28-5 88-75-5 100-02-7 59-50-7 87-86-5 108-95-2 88-06-2	2-Chlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2-Nitrophenol 4-Nitrophenol p-Chloro-m-cresol Pentachlorophenol Phenol 2,4,6-Trichlorophenol	84-66-2 131-11-3 84-74-2 121-14-2 606-20-2 117-84-0 122-66-7 206-44-0 86-73-7 118-74-1 87-68-3 77-47-4	Diethyl phthalate Dimethyl phthalate Di-n-butyl phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene Di-n-octyl phthalate 1,2-Diphenylhydrazine Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene		
Base Neutrals (46)		67-72-1 193-39-5 78-59-1	Hexachlorocycloperitadiene Hexachloroethane Indeno (1,2,3-cd) pyrene Isophorone		
208-96-8 120-12-7 103-33-3 92-87-5 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9 111-91-1 111-44-4 102-60-1 117-81-7 101-55-3 85-68-7 91-58-7 7005-72-3 218-01-9 53-70-3 95-50-1 541-73-1 106-46-7 91-94-1	Acenaphthylene Anthracene Azobenzene Benzidine Benzo (a) anthracene Benzo (a) pyrene 3,4-Benzofluoranthene Benzo (g,h,i) perylene Benzo (k) Fluoranthene Bis (2-chloroethoxy) methane Bis (2-chloroethyl) ether Bis (2-chloroisopropyl) ether Bis (2-ethylhexyl) phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate 2-Chloronaphthalene 4-Chlorophenyl phenyl ether Chrysene Dibenzo (a,h) anthracene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzidene	91-20-3 98-95-3 62-75-9 621-64-7 86-30-6 85-01-8 129-00-0 120-82-1	Naphthalene Nitrobenzene N-nitrosodimethylamine N-nitrosodiphenylamine Phenanthrene Pyrene 1,2,4-Trichlorobenzene		

CAS #	POLLUTANT	CAS #	POLLUTANT
Volatiles (28)		Pesticides (26)	
107-02-8 107-13-1 71-43-2 75-25-2 56-23-5 108-90-7 124-48-1 75-00-3 110-75-8 67-66-3 75-27-4 75-34-3 107-06-2 75-35-4 78-87-5 542-75-6 100-41-4 74-83-9 74-87-3 75-09-2 79-34-5 127-18-4 108-88-3 156-60-5 71-55-6 79-00-5 79-01-6 75-01-4	Acrolein Acrylonitrile Benzene Bromoform Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane 2-Chloroethyl vinyl ether Chloroform Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethylene 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropylene Ethylbenzene Methyl bromide Methyl chloride Methyl chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene 1,2-trans-Dichloroethylene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Vinyl chloride	309-00-2 319-84-6 319-85-7 319-86-8 58-89-9 57-74-9 50-29-3 72-55-9 72-54-8 60-57-1 115-29-7 1013-07-8 72-20-8 7421-93-4 76-44-8 1024-57-3 53469-21-9 11097-69-1 11104-28-2 11141-16-5 12672-29-6 11096-82-5 12674-11-2 8001-35-2 1764-01-6	Aldrin Alpha-BHC Beta-BHC Delta-BHC Gamma BHC Chlordane 4,4-DDT 4,4-DDE 4,4-DDD Dieldrin Alpha endosulfan Beta endosulfan Endosulfan sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor epoxide PCB-1242 PCB-1254 PCB-1221 PCB-1232 PCB-1248 PCB-1260 PCB-1016 Toxaphene 2,3,7,8-Tetrachloro-dibenzo -p-dioxin