

DEPARTMENT OF HEALTH SERVICES

TOXIC SUBSTANCES CONTROL PROGRAM (REGION 3)
 1405 N. SAN FERNANDO BOULEVARD, SUITE 300
 BURBANK, CA 91504
 (818) 567-3000



Facility:)	HAZARDOUS WASTE FACILITY PERMIT
)	
Entech Recovery Inc., a.k.a.)	Permit No.: 91-3-TS-002
Southern California Chemical)	
8851 Dice Road)	EPA ID Number: CAD008488025
Santa Fe Springs, CA 90670)	
)	Effective Date: JUL 29 1991
)	
Operator:)	Expiration Date: July 29, 1996
)	
Entech Recovery Inc., a.k.a.)	
Southern California Chemical)	
8851 Dice Road)	
Santa Fe Springs, CA 90670)	

Pursuant to Section 25200 of the California Health and Safety Code, this Hazardous Waste Facility Permit is hereby issued to Entech Recovery Inc., a.k.a. Southern California Chemical Company (SCC), Santa Fe Springs, California. The issuance of this permit is subject to the conditions set forth in Attachment A which consists of 57 pages.

Where appropriate, this permit is also subject to the State of California Health and Safety Code, Sections 25159.5 and 25159.6, relating to the incorporation of Federal regulations in the absence of equivalent State regulations.

ORIGINAL SIGNED BY:

Dennis A. Dickerson
 Regional Administrator

Dennis A. Dickerson
 June 19, 1991
 Date

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ATTACHMENT A

Draft Hazardous Waste Facility Permit
for
Entech Recovery Inc., a.k.a.
Southern California Chemical Company
8851 Dice Road
Santa Fe Springs, CA 90670
CAD008488025

I. DESCRIPTION OF FACILITY

A. Ownership, Operation and Location

Entech Recovery Inc., a.k.a. Southern California Chemical Company (SCC) located in Santa Fe Springs, California hereinafter called the "owner", "operator" and "permittee" have applied to the Department of Health Services for continued operation of their off-site storage, treatment and transfer facility.

The facility manages off-site wastes from several industries, including but not limited to, the electronic, chemical and aerospace industries.

SCC's hazardous waste treatment, storage and transfer facility is located on a 4.9-acre parcel at 8851 Dice Road, in the City of Santa Fe Springs, Los Angeles County, California. The facility is located in a predominantly industrial and commercial area.

The Part B Application describes several facility modifications that SCC proposes to make during the next two years. These modifications include replacement of existing storage/treatment tanks and addition of new tanks which will result in increase in storage and treatment capacities.

The existing and proposed units are/will be regulated under state hazardous waste control laws, the federal Resource Conservation and Recovery Act, and their implementing regulations.

The major modifications of the facility will be done in both storage and treatment capacities. SCC presently stores hazardous waste in nine storage tanks with cumulative maximum storage capacity of 229,500 gallons and treats hazardous waste in nine treatment tanks with a cumulative maximum treatment capacity of 104,700 gallons per day. There will be a total of twelve storage tanks and eleven treatment tanks in the final modernized facility. After these modifications, the final total storage capacity will change from 229,500 to 355,500 gallons and the final total treatment capacity will change from 104,700 to 227,500 gallons per day.

Waste management units at the existing facility include a copper chloride and copper ammonium chloride area, ferric chloride process area, copper

sulfate process area, metal recovery area, wastewater treatment unit, two drum storage areas and a transfer station.

- SOC also proposes a new waste treatment unit which will destroy cyanide plating solutions by converting cyanides to carbon dioxide and nitrogen gases upon the addition of virgin alkaline material. The resultant solution then will be treated in the metal recovery treatment unit and SOC's wastewater treatment unit to remove any heavy metals prior to discharge to the sewer. The construction and operation of this treatment unit will not occur pursuant to this permit and will be subject to EPA and DHS joint approval of the completion of the final corrective measure study report (which is discussed under Section V of this permit) and receipt of a written notification from both agencies to begin the construction.

The wastewater treatment system consists of four tanks, a three stage clarifier and a frame filter press. Two of the wastewater treatment tanks, the filter press and the three stage clarifier operate under a hazardous waste permit variance issued by the Department on February 23, 1988.

B. Compliance With California Environmental Quality Act (CEQA)

The Department of Health Services has proposed a negative declaration in accordance with the California Environmental Quality Act (Public Resource Code, Section 2100, et. seq.) and the State guidelines.

II. GENERAL CONDITIONS

A. References and Terminology

All parts in this permit are identified by Roman numerals. The items set forth in each part shall apply to the owner, operator, and/or facility in addition to the items set forth in any preceding and/or following part of this permit. Unless explicitly stated otherwise, all cross-reference to items in this permit shall refer only to items occurring within the same part.

B. Effect of Permit

1. The Department's issuance of this permit does not release the owner or operator from any liability or duty imposed by federal or state statutes and regulations or local ordinances, except the obligation to obtain this permit. In particular, unless otherwise specifically provided in this permit, the owner or operator shall comply with the provisions of Chapter 6.5 of Division 20 of the Health and Safety (H&S) Code, and Title 22, CCR, Division 4, Chapter 30.
2. The Department's issuance of this permit does not prevent the Department from adopting or amending regulations, issuing administrative orders, or obtaining judicial orders which impose requirements which are in addition to or more stringent than those in existence at the time this permit was issued. The owner or operator shall comply with any such additional or more stringent requirements in addition to the requirements and conditions specified in the permit.
3. The Department's issuance of this permit does not convey property rights of any sort or any exclusive privilege, nor does it authorize any injury to persons or property or any invasion of other private rights.
4. The owner or operator is permitted to store, treat, and transfer hazardous waste in accordance with the conditions of this permit. The owner or operator shall perform the hazardous waste management activities authorized by this permit in accordance with the plans and specifications approved by the Department. Any management of hazardous waste not authorized in this permit is prohibited.

C. Permit Actions

This permit may be modified, reissued, or terminated for cause as specified in Sections 66302, 66303, and 66305, Title 22, California Code of Regulations (CCR). The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on any

part of the owner or operator does not stay the applicability or enforceability of any permit condition.

D. Need to Halt or Reduce Activity

It shall not be a defense for the owner or operator in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

E. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

F. Operation Plan

1. By the issuance of the permit, the Operation Plan dated November 8, 1988, revised May 4, 1990, and June 21, 1990, is hereby approved. Specific sections of this Operation Plan are referenced elsewhere in this permit.
2. The owner or operator shall operate and maintain the facility in accordance with the Operation Plan.
3. In the event of any conflict between this permit and the Operation Plan referred herein, the provisions of the permit shall be controlling.
4. The Operation Plan shall be maintained at the facility and place of business at all times until closure is completed.

G. General Responsibilities of Operator

1. Compliance

- a. The owner or operator shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit or approved by the Department. Any permit noncompliance constitutes grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application.

b. Compliance with city requirements

The owner or the operator shall comply with all the requirements of the agreement (Attachment B to this permit) between the facility and the City of Santa Fe Springs dated January 11, 1991.

2. Reapplication

If the owner or operator wishes to continue an activity regulated by this permit after the expiration date of this permit, the owner or operator must submit a completed application for a new permit at least 180 days before this permit expires.

3. Permit Expiration

This permit shall be effective for five years. This permit and all conditions therein will remain in effect beyond the permit expiration or termination date if the owner or operator has submitted a timely, completed application and, through no fault of the owner or operator, the Department has not issued a new permit and the Department has given the owner or operator written approval to continue past the time of permit expiration.

4. Transfer of Permit

This permit may be transferred to a new owner or operator only if it is modified or revoked and reissued pursuant to Section 66382(b)(2) or 66385(d), Title 22, CCR. The owner or operator shall notify the Department of a proposed change in ownership of this facility at least 30 days prior to the date of the transfer. Furthermore, before transferring ownership or operation of the facility during its operating life, the owner or operator shall notify the new owner or operator in writing of the requirements of this permit and the permitting process. A copy of this notification shall be submitted to the Department.

5. Mitigation

The owner or operator shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

6. Operation and Maintenance

- a. The facility shall be maintained at all times and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil, surface water, or ground water which could threaten human health or the environment.

- b. All equipment, pipes, and lines used at the facility to handle, transfer, pump, or store hazardous wastes shall be maintained in a manner that prevents the leaking and spilling of hazardous wastes.
- c. The owner or operator shall at all times properly operate and maintain all facilities of treatment and control (and related appurtenances) which are installed or used by the owner or operator to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facility or similar systems only when necessary to achieve compliance with the conditions of the permit.

7. Submittal of Requested Information

The owner or operator shall furnish to the Department, within the requested time frame, any relevant information which the Department may inquire to determine whether cause exists for modifying, revoking and reissuing, terminating this permit, or to determine compliance with this permit. The owner or operator shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

8. Hazardous Waste List

- a. The owner or operator shall maintain a current list of hazardous wastes that can be accepted by the facility. The owner or operation shall, as necessary, update the hazardous waste list presented in the approved Operation Plan. Any additions to the list must be approved by the Department prior to their inclusion.

Tabs 12 and 13 of the Operation Plan contain the description of waste materials accepted by the permittee for treatment in accordance with EPA and California Waste Codes. The Permittee may store these wastes in containers/tanks at the facility subject to the terms of this Permit. There is no maximum volume of a specific waste type, but the total volume cannot exceed the equivalent of 3,146 55-gallon drums which amounts to approximately 175,000 gallons.

9. Inspection and Entry

The owner or operator shall allow authorized representatives of the Department, the State Water Resources Control Board, a

Regional Water Quality Control Board, or the local health agency, upon the presentation of credentials and other documents as may be required by law to:

- a. Enter at reasonable times upon the owner's or operator's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d. Sample or monitor, at reasonable times, for the purposes of assuring permit compliance or, as otherwise authorized by law, any substances or parameters at any location.

10. Planned Changes

The owner or operator shall obtain approval from the Department as soon as possible and at least 30 days in advance of any planned physical alterations or additions affecting operation of the hazardous waste area of the permitted facility.

11. Anticipated Noncompliance

The owner or operator shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The owner or operator shall report to the California Office of Emergency Services (800) 852-7550 any circumstances that may endanger public health or the environment immediately upon becoming aware of the incident.

12. 24-Hour Reporting

The owner or operator shall report to the Department any noncompliance which may endanger public health or the environment. Any information shall be provided verbally within 24 hours from the time the owner or operator becomes aware of the noncompliance.

The following shall be provided as information which must be reported verbally within 24 hours to the Department of Health Services, Toxic Substances Control Program, Region 9 at (818) 567-3000.

- a. Information concerning a release of any hazardous waste which may cause an endangerment to public drinking water supplies.
- b. Information concerning any release or discharge of hazardous waste, or of fire or explosion from the facility, which could threaten human health or the environment outside the facility. The description of the occurrence and its cause shall include:
 - (1) Name, address and telephone number of the owner or operator;
 - (2) Name, address and telephone number of the facility;
 - (3) Date, time and type of incident;
 - (4) Name and quantity of material(s) involved;
 - (5) The extent of injuries, if any;
 - (6) An assessment of actual or potential hazard to the environment and human health outside the facility, where this is applicable; and
 - (7) Estimated quantity and disposition of recovered material that resulted from the incident.

A written submission shall also be provided within fifteen (15) calendar days of the time the owner or operator becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the periods of noncompliance (including exact dates and times), and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

13. Other Noncompliance

The owner or operator shall report all other instances of noncompliance not otherwise required to be reported at the time monitoring or other reports are submitted. The reports shall contain the information listed in II.G.12 above.

14. Other Information

The owner or operator shall promptly submit all material information which have been omitted or which correct information in the permit application or any other report submitted to the Department.

H. Signatory Requirement

All reports or other information requested by the Department shall be signed by the owner or operator. For a corporation, this would be a responsible corporate officer; for a partnership or sole proprietorship, by a general partner or the proprietor, respectively; and for a municipality or other public agency, by a principal executive officer or ranking official. The person signing the document shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

I. Certification of Construction

The owner or operator may not commence treatment, storage, or transfer of hazardous wastes at the facility or modified portion of the facility until:

1. The owner or operator has submitted to the Department by certified mail or hand delivery a letter signed by the owner or operator and an appropriate engineer registered in California stating that the facility has been constructed in compliance with the permit; and
2. The Department has inspected the constructed facility and finds it is in compliance with the conditions of the permit; or
3. The Department has either waived the inspection or has not within 15 days notified the owner or operator of its intent to inspect.
4. The proposed cyanide destruction unit shall neither be constructed nor operated until DHS and EPA approve the final corrective measure study report discussed under section V of this permit.

J. Waste Minimization Certification

1. The Permittee shall retain original signed copies, for at least three (3) years from the date of certification, of the following statement on waste minimization:

"I hereby certify under penalty of law, that personnel under my direction and supervision, at this facility are undertaking specific steps in accordance with a program in place, to minimize the amount and toxicity of hazardous wastes generated at this facility to a degree economically practicable and that the method utilized for the treatment, storage, or disposal of hazardous wastes is the practicable method currently available to this facility which minimized the present and future threat to human health and the environment. I am aware that there are significant penalties for false certification, including the possibility of fine and imprisonment for flagrant falsifications."

2. The owner or operator shall make this certification at least annually and shall retain copies as part of the facility's written operation record as required in permit condition III.R.3.
3. The Permittee shall comply with the following conditions:
 - a. The Permittee shall use the EPA Waste Minimization Opportunity Assessment Manual, (EPA 625/7-88/003) until such time as EPA formulates new federal regulations and guidance.
 - b. The Permittee shall use the 1987 four digit SIC code where the SIC code is requested in the statute.
 - c. Professional certification of the plan and plan summary shall be by a professional engineer or environmental assessor.
 - d. ~~The certification shall be by the owner, partner, or director.~~
4. ~~The Permittee shall submit to the Department within one year of permit issuance detailed descriptions of any programs the Permittee may have to assist generators of hazardous waste in reducing the volume or quantity and toxicity of wastes they produce.~~
5. The Permittee shall submit to the Department within one year of permit issuance the following information and also submit changes to the Department within 30 days of those changes.
 - a. A list of generators who received information (see item b).
 - b. A list of generators who used the Permittee's waste reduction services on a waste reduction program.
 - c. A list of generators known to the Permittee who have a waste reduction program in place and any known results.

(i.e., has there been a reduction in wastes submitted for treatment, recycling or disposal).

6. The Permittee shall prepare a report detailing the specific waste minimization efforts in place that support the waste minimization certification of Permit Condition II.J.1. This report shall also describe further waste minimization efforts that could be undertaken at the facility. This report shall be maintained at the facility as a part of the operating record, and shall be submitted to the Department no later than September 1, 1991. At a minimum, this report shall describe the following:
 - a. Any written policy or statement that outlines goals, objectives, and/or methods for source reduction and recycling of hazardous waste at the facility.
 - b. Any employee training or incentive programs designed to identify and implement source reduction and recycling opportunities.
 - c. Any source reduction and/or recycling assessments or audits conducted in the last five years or planned for the near future.
 - d. Any source reduction and/or recycling measures implemented in the last five years or planned for the near future.
 - e. The dollar amount of capital expenditures (plant and equipment) and operating costs devoted to source reduction and recycling of hazardous waste.
 - f. Factors that have prevented implementation of source reduction and/or recycling opportunities.
 - ~~g. Sources of information on source reduction and/or recycling received at the facility (e.g. local government, trade associations, suppliers, etc.)~~
 - h. An investigation of additional waste minimization efforts which could be implemented at the facility.

This investigation shall analyze the potential for reducing the quantity and toxicity of each waste stream through waste handling change, recycling, and all other appropriate means. The analysis shall include an assessment of the technical feasibility and potential waste reduction for each stream.

K. LAND DISPOSAL RESTRICTION

1. The permittee shall comply with the California Code of Regulations (CCR), Title 22, Article 40 (Land Disposal

Restriction - RCRA and non RCRA Waste Categories), Article 41 (Treatment Schedule - RCRA and non RCRA Waste Categories), and Article 7.7 of the Health and Safety (H&S) Code.

2. The permittee shall submit to the Department within sixty days from permit issuance certification outlining procedures the facility will undertake to ensure that the following land disposal restriction [part of II.K., Land Disposal Restriction] conditions are complied with:

a. Facility waste shall be tested in accordance with Toxicity Characteristic Leaching Procedure (TCLP) as defined in Section 66209 of the OCR, Title 22 or use knowledge of the waste to determine if the waste is restricted from land disposal.

b. With each shipment of restricted waste, the Permittee shall submit a written notification to the treatment, storage or land disposal facility of appropriate treatment standard set forth in Article 41 of the OCR, Title 22. The notice shall include the following information:

1. EPA Hazardous Waste Number;
2. The corresponding treatment standard;
3. The manifest number associated with the shipment of the waste; and
4. Waste analysis data, where available.

~~c. In addition to II.K.2.D above, for waste that the Permittee has determined can be land disposed without further treatment, a certification stating that the waste meets the applicable treatment standard set forth in Article 41 of the OCR, Title 22 shall also be issued to the treatment, storage or disposal facility. The Certification shall be signed by an authorized representative and shall state the following:~~

"I certify under penalty of law that I personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in OCR Title 22, Division 4, Chapter 30, Article 41. I believe that the information submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment."

d. The Permittee shall retain on-site a copy of all notices, certifications, demonstrations, waste analysis data and

other documentation for at least five years from the date that the waste was sent to on-site, off-site treatment, storage or disposal.

III. SPECIAL CONDITIONS

A. Prohibition of Disposal

Hazardous wastes shall not be permanently disposed of at the facility unless such disposal is properly permitted.

B. Wastes Prohibited

The facility is prohibited from storing or treating hazardous wastes that are not identified in permit condition III.B. Prohibited wastes include, but are not limited to:

1. Forbidden and Class A and Class B explosives as defined in Sections 173.51 and 173.53, Title 49, CFR; (and waste codes K044, K045, K056, K047 in Section 261, Title 40, CFR.)
2. Radioactive Materials
3. Infectious Materials
4. Compressed Gases
5. Municipal Garbage/Refuse
6. Wastes containing more than 10 ppb Dioxins and/or 10 ppb furans
7. Waste containing more than 50 ppm (parts per million by weight) Poly chlorinated biphenyls (PCB).
8. The following hazardous waste streams from nonspecific sources as defined in the code of Federal Regulations, Title 40 (40 CFR), Section 261.31: (Waste code F020, F021, F023, F026, F027, and F028)
9. Any hazardous waste not listed in the approved Operation Plan or otherwise approved by the Department or EPA.

The treatment system shall meet the sewer discharge limitations and all other industrial waste discharge permitting requirements. The facility shall also meet all South Coast Air Quality Management District requirements.

C. Storage Conditions

General Conditions

- a. Hazardous wastes shall not be stored at the facility for longer than one year without written approval from the California State Department of Health Services.

- b. If a hazardous waste is stored at the facility longer than one year, the owner or operator shall submit to the California State Board of Equalization fees due and payable in conformance with Chapters 1-8, Part 22, Division 2, Revenue and Taxation Code and with Article 8, Chapter 30, Division 4, Title 22, California Code of Regulations.

2. Storage in Containers

The two existing drum storage areas occupy a total of 6,727 square feet of the facility. Both of these storage areas are padded with concrete and are surrounded by a combination of a 10" curb and berms to prevent run-on to or run-off from the storage areas. Up to a total of approximately 3,146 55 gallon containers (equivalent to 174,000 gallons) can be stored in both of these areas. The base and curb of both of these container storage areas are coated with an impervious epoxy type paint. Secondary containment for these areas are designed to hold a total of 17,400 gallons which is 10% of the total storage capacity of the facility.

The construction/installation, operation and closure of these units will conform to the requirements of the Code of Federal Regulations, Subpart I, Sections 264.170 to 264.178.

Containers received are typically unlined and uncoated polyethylene drums which are compatible with and resistant to the type of waste that are accepted by the facility. These polyethylene drums conform to Department of Transportation (DOT) specification such as DOT 34, E 6637-55, E 7768-55 and E 8448.

There are also a limited number of metal drums used primarily for alkaline wastes. These drums are typically unlined, uncoated and conform to DOT 17-E and 17-H, with sizes ranging from 5 to 55 gallons.

The maximum number of drums that can be stored at the facility at any one time is 3,146 55-gallon drums or their equivalent volume which amounts to approximately 174,000 gallons.

- a. Containers holding all on-site and off-site generated hazardous wastes shall be stored only in the area designated in the approved Operation Plan.
- b. A container holding hazardous waste shall remain closed during storage, except when it is necessary to add or remove waste.
- c. Containers holding hazardous waste shall be maintained in a manner which might rupture the container or cause it to leak.

- d. A label shall be maintained on all containers in which hazardous wastes are stored. Labels shall include the following information:
- (1) Composition and physical state of the waste;
 - (2) Special safety recommendations and precautions for handling the waste;
 - (3) Statement or statements which call attention to the particular hazardous properties of the waste;
 - (4) Name and address of the facility producing the waste;
 - (5) Date accumulation begins or date of acceptance at the storage facility;
- e. Empty containers contaminated with hazardous waste and hazardous materials shall be stored, handled, and processed as hazardous waste or recycled whenever possible.
- f. The total number of containers storing hazardous waste in the storage area shall not exceed the designed capacity of the storage area at any one time.
- g. Containers used for storing hazardous waste shall be in a condition such that the containers can be safely transported, handled, or moved.
- h. If a container holding hazardous waste is not in good condition, or if it begins to leak, the owner or operator shall transfer the hazardous waste from this container to a container that is in good condition immediately after discovery of the poor condition of the drum, or manage the waste in some other way that complies with the conditions of this permit.
- i. **Compatibility of Waste With Containers:**
- The owner or operator shall use a container made of or lined with materials which will not react with, and are otherwise compatible with, the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired.

j. **Containment**

For each storage area, the owner or operator shall provide a spill containment system in accordance with the approved Operation Plan. Specifically, each hazardous waste storage area shall have a continuous base that is impervious to the waste stored and shall

be designed and constructed so that any spills can be contained and cleaned up.

- (2) In addition to the requirements of item (1) above, the containment system shall be constructed so that surface waste runoff is contained and surface water run-on is excluded. The containment system shall have sufficient capacity to contain ten percent of the volume of containers or the volume of the largest containers, whichever is greater. Outdoor containment areas must also contain precipitation from a 24-hour, 25-year storm.
- (3) Spills, leaks, and precipitation shall be promptly removed from the containment area to prevent overflow.

3. Storage in Tanks

The primary functions of SOG's tanks are: 1) the treatment of wastes through chemical reaction and physical separation; 2) temporary storage of industrial wastewater and off-site bulk wastes; 3) blending, batch neutralization, and chemical reduction/oxidation to alter the valence states of chemical compounds; 4) heavy metal precipitation; 5) metal recovery; and 6) the storage of treated wastewater prior to discharge to the local sewers. All tanks are built aboveground, made of fiberglass (Reinforced Plastic) or polyethylene materials. There is also one tank that is made of titanium anchored to a carbon steel skirt. All storage tanks are equipped with level gauges and high level alarms. All tanks which require South Coast Air Quality Management District Permits are vented to the fume/vapor (emission control) collection system.

Auxiliary equipment includes pumps and piping constructed primarily of plastic materials such as PVC. Electrical groundings are also provided for all this equipment. The grading and compacting of the foundation soil and the installation of steel reinforcing bars with six inches (or as per designed thickness) of concrete provide support for these tanks. Secondary containment consists of the foundation pad and curbs to contain ten percent of the total volume plus a 24-hour, 25-year storm event.

At present, there are nine treatment tanks, four wastewater treatment tanks and nine storage tanks located in the process area. Wastewater is pumped into the treatment tanks for neutralization, precipitation, and filtration. The treated wastewater is then discharged to the local sewers. Treatment sludges are dewatered in a sludge filter press and shipped off-site for sale to smelters.

SAMS
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The major modifications of the facility will be done in both storage and treatment capacities. New tanks will be added to the existing units while some tanks will be closed. ~~SOC~~ ^{Storage} presently store hazardous waste in nine storage tanks with cumulative maximum storage capacity of 229,500 gallons and treats hazardous waste in nine treatment tanks with a cumulative maximum treatment capacity of 104,700 gallon per day. There will be a total of twelve storage tanks and eleven treatment tanks in the final modernized facility. After these modifications, the final total storage capacity will increase from 229,500 to 256,500 gallons and the final total treatment capacity will increase from 104,700 to 137,200 gallons per day.

The permittee presently stores hazardous waste in nine storage tanks with cumulative maximum storage capacity of 229,500 gallons. The existing storage tanks are:

<u>Tank Number</u>	<u>Capacity (gallons)</u>
S-5	10,000
F-1	10,000
F-12	1,700
C-5	10,000
C-6	10,000
C-7	10,000
C-8	16,000
C-9	16,000
J-4	5,400

Good storage tanks used for storage before divided into smaller

The wastewater treatment system consists of the following: W-1, W-2, W-3, W-4 tanks, a frame filter press and a three stage clarifier. W-3, W-4 tanks, the filter press and the three stage clarifier operate under a hazardous waste permit variance issued by the Department on February 23, 1988.

<u>Tank Number</u>	<u>Capacity (gallons)</u>
W-1	30,000
W-2	30,000
W-3	12,500
W-4	12,500

The permittee presently treats hazardous waste in nine treatment tanks with cumulative maximum treatment capacity of 104,700 gallons per day. The existing treatment tanks are:

<u>Tank Number</u>	<u>Capacity (gallons)</u>
S-1A	7,500
S-1B	7,500
F-2A	3,500
C-1A	7,200
C-1B	7,200

C-1C	7,500
C-1D	8,800
J-3	5,900
J-2	3,000

This permit will allow the construction of 3 new tanks. These tanks are described as follow:

<u>Tank Number</u>	<u>Description</u>	<u>Capacity (gallons)</u>
S-6	10'x 24' Storage	15,000
J-5	10'x 11' Treatment	6,000
J-6	10'x 11' Storage	6,000

This permit requires the immediate replacement of 2 existing tanks located in the ferric chloride area. These tanks are described as follow:

<u>Tank Number</u>	<u>Description</u>	<u>Capacity (gallons)</u>
F-1	9'x 16' Storage	8,500
F-2	12'x 13' Treatment	3,500

a. Design of Tanks

- (1) The owner or operator shall construct all tanks in accordance with the approved Operation Plan.
- (2) The owner or operator shall maintain a minimum shell thickness to ensure structural soundness of each tank. Prior to use (whether new, replacement, repaired) and every three years, hazardous waste storage tanks and their appurtenances shall be certified by a civil engineer, registered in California, to be structurally sound and of adequate construction for the intended use.
- (3) Each hazardous waste storage tank and storage area shall be individually marked with the internationally recognized hazard identification system placards developed by the National Fire Prevention Association.
- (4) The total volume of hazardous waste stored in tanks shall not exceed the designed capacity.

b. Containment

For each hazardous waste storage area, the owner or operator shall provide a spill containment system in accordance with the approved Operation Plan. Specifically, each hazardous waste storage area shall have a continuous base that is impervious to the waste stored, shall be

designed and constructed so that any spills can be contained, and shall have sufficient capacity to contain ten percent of the total volume of the tanks or 100% of the volume of the largest tank, whichever is greater.

- (2) In addition to the requirements of item (1) above, outdoor uncovered containment areas shall contain all surface water runoff, exclude all surface water run-on, and contain precipitation from a 24-hour, 25-year storm.
- (3) Spills, leaks, and precipitation shall be promptly removed from the containment area to prevent overflow.

c. Operation

- (1) Hazardous wastes shall not be placed in a tank if they could cause the tanks or its liner to rupture, leak, corrode, or otherwise fail before the end of its intended life.
- (2) Uncovered tanks shall be operated to ensure at least 60 centimeters (2 feet) of freeboard.
- (3) Discharged valves on hazardous waste storage tanks shall be kept closed when the facility is unattended.

D. PERMITTED AND PROHIBITED WASTE IDENTIFICATION

Tab 12 and 13 of the Operation Plan contain the description of waste materials accepted by the permittee for treatment and recycling in accordance with Uniform Hazardous Waste Manifest (California Waste Codes). The Permittee may store the above-referenced wastes in containers at the facility, subject to the terms of this Permit. There is no maximum volume of a specific waste type, but the total volume cannot exceed the equivalent of 3,146 55-gallon drums which amounts to approximately 174,000 gallons.

E. Treatment Conditions

Operations and maintenance of the treatment system shall be conducted in accordance with Volume I and Volume II of the approved Operation Plan.

The following operations, potentially in the future, shall be carried out under controlled conditions to ensure that violent reactions, extreme

heat, or fire do not occur and that toxic or flammable gases and vapors are not released into the atmosphere.

2. Hazardous wastes or treatment reagents shall not be placed in the treatment process or equipment if they cause the treatment process or equipment to rupture, leak, corrode, or otherwise fail before the end of its intended life.

F. Management of Ignitable, Reactive, or Incompatible Wastes

1. The storage of ignitable, reactive, or incompatible wastes and materials shall be conducted so that it does not:
 - a. Generate extreme heat or pressure, fire or explosion, or violent reaction;
 - b. Produce uncontrolled toxic mists, fumes, dust, or gases in sufficient quantities to threaten human health or the environment;
 - c. Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions;
 - d. Damage the structural integrity of the device or facility containing the waste; or
 - e. Through other like means threaten human health or the environment.
2. This permit allows storage and treatment of ignitable or reactive wastes in tanks, except as described as follow:
 - a. The owner or operator shall take precautions to prevent accidental ignition of ignitable wastes or reaction of reactive wastes. This waste shall be separated and protected from sources of ignition or reaction. While ignitable or reactive waste is being handled, the owner or operator shall confine smoking and open flame to specially designed locations. "No Smoking" signs shall be conspicuously placed wherever there is a hazard from ignitable or reactive waste.
 - b. Each drum holding ignitable or reactive waste shall be situated at 15 meters (50 feet) from the property line of the facility.
 - c. Ignitable or reactive waste shall not be placed in a drum for storage or treatment unless:

- (1) The waste is treated, rendered, or mixed before or immediately after placement in the drum so that the resulting waste, mixture, or dissolution of materials is no longer ignitable or reactive and item III.E.1 of this permit is complied with;
- (2) This waste is stored in such a way that it is protected from any material or condition which may cause the waste to ignite or react.

3. Incompatible Wastes

- a. Hazardous waste shall not be placed in an unwashed container or tank that previously held an incompatible waste or material.
- b. Areas used for storing containers of incompatible hazardous waste shall be widely separated. Impermeable physical barriers such as berms, dikes, or walls shall be provided to ensure that commingling of incompatible hazardous wastes cannot occur.
- c. The following incompatible hazardous waste groups shall be adequately separated from each other during all handling and storage operations:

Examples:

- (1) Cyanides shall be separated from acids.
- (2) Organic acids shall be separated from other toxic wastes.
- (3) Reactive toxic metals shall be separated from water.

G. Operation at Night

When the facility is operated during hours of darkness, the owner or operator shall provide sufficient lighting to ensure safe, effective management of hazardous wastes.

H. Recycling

If requested by the Department, in accordance with Article 12, Chapter 30, Division 4, Title 22, CCR, the owner or operator shall, within 30 days, submit a written statement justifying having not recycled a waste which the Department has determined to be recyclable.

I. Manifest System

1. The owner or operator shall:
 - a. Complete the appropriate section of the manifest;
 - b. Sign and date each copy of the manifest to certify that the hazardous waste covered by the manifest was received.;
 - c. Note any significant discrepancies in the manifest on each copy of the manifest;
 - d. Immediately give the transporter at least one copy of the signed manifest;
 - e. Send legible copies of all completed hazardous waste manifests to the Department on a monthly basis in conformance with Section 67168, Title 22, CCR;
 - f. Within 30 days after delivery, send a copy of the manifest to the generator;
 - g. Retain at the facility a copy of each manifest for at least three years from the date of delivery;
 - h. Submit to the Department by the last day of each month information on the hazardous waste delivered during the previous month consisting of a legible copy of the completed manifest for each load of hazardous wastes accepted, and a report that summarizes the numbers of loads of hazardous wastes received.

2. Manifest Discrepancies

a. Significant Discrepancies

- (1) Upon discovering a significant discrepancy between the quantity or type of hazardous waste designated on the manifest and the quantity or type of hazardous waste the facility actually receives, the owner or operator shall attempt to reconcile the discrepancy with the waste generator or transporter.
- (2) Significant discrepancies in quantity are:
 - (a) For bulk waste, variations greater than ten percent in weight; and
 - (b) For batch waste, any variation in piece count such as a discrepancy of one drum in a truckload.

- (3) Significant discrepancies in type are obvious differences which can be discovered by inspection or waste analysis, such as waste solvent for waste acid or toxic constituents not reported on the manifest.
- b. If the facility cannot legally accept the waste, the owner or operator shall notify the Department of that fact in writing within 15 days, identify the transporter and generator of the waste, and refuse to accept the waste. If the owner or operator can accept the waste, the owner or operator shall note how the discrepancy was resolved on the copy of the manifest submitted to the Department and on the copy retained at the facility. If the discrepancy is not resolved within 15 days after receiving the waste, the owner or operator shall immediately submit to the Department a letter describing the discrepancy and attempts to reconcile it and a copy of the manifest at issue.

3. Unmanifested Wastes Received or Rejected

When the facility receives or rejects an unmanifested load of hazardous waste, the owner or operator shall prepare and submit a report to the Department within 15 days. The report shall include the following information:

- a. The EPA identification number, name, and address of the facility receiving or rejecting the waste;
- b. The date the facility received or rejected the waste;
- c. The EPA identification number, name, and address of the generator and the transporter who transported the waste;
- d. The license number of the vehicles used to transport the waste. This shall include the license number of the tractor, as well as the trailers, if appropriate;
- e. A description and quantity of the received or rejected load of hazardous waste;
- f. For waste received, the method of treatment, storage, or disposal for each hazardous waste;
- g. If rejected, a brief explanation of why the waste was rejected;
- h. A brief explanation of why the waste was unmanifested, if known; and
- i. A certification as required by item II.H of this permit.

4. Uncertified Hauler

The owner or operator shall notify the Department in writing within 15 days when the facility receives any hazardous waste from an uncertified hauler or if the facility receives a hazardous waste that was transported in a vehicle or container failing to display a valid certificate of compliance.

J. Required Notice

1. If the owner or operator has arranged to receive hazardous waste from a foreign source, the owner or operator shall notify the Department in writing at least four weeks in advance of the date that the waste is expected to arrive at the facility. Notice of subsequent shipments of the same waste from the same foreign source is not required.
2. When the owner or operator receives hazardous waste from an off-site source, the owner or operator must inform the generator in writing that the facility has the appropriate permit(s) for, and will accept, the waste the generator is shipping. The owner or operator shall keep a copy of this written notice as part of the operating record.

K. Analysis of Waste

1. Upon the effective date of this permit, the owner or operator shall follow the written waste analysis plan as described in the approved Operation Plan.
 - a. Prior to the storage or treatment of a particular type of hazardous waste for the first time (or the use of a treatment process which differs substantially from the previously used), the owner or operator shall:
 - (1) Conduct waste analyses and trial treatment tests (e.g., bench scale or pilot plant scale tests);
or
 - (2) Obtain documented information on similar treatment of similar waste under similar operating conditions.
 - b. These tests or information shall include data pertaining to the compatibility wastes with the container or tank used for the storage or treatment of these wastes.
 - c. The owner or operator shall ensure that the storage or treatment of any hazardous waste will not:

- (1) General extreme heat or pressure, fire or explosion, or violent reaction;
 - (2) Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health or the environment;
 - (3) Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions;
 - (4) Damage the structural integrity of the device or facility containing the waste; or
 - (5) Through other like means threaten human health or the environment.
2. The analysis shall be repeated, as necessary, to ensure that it is accurate and up to date. As a minimum, the analysis must be repeated when the owner or operator is notified or has reason to believe that the process operation generating the hazardous waste has changed.
 3. The owner or operator shall verify the waste analysis plan as part of the quality assurance program. This quality assurance program will be in accordance with current U. S. EPA practices Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods SW-846 or equivalent methods approved by the Department; and at a minimum ensure that the owner or operator maintain proper functional instructions, uses approved sampling, and analytical methods assures the validity of sampling and analytical procedures, and performs correct calculations.
 4. Data developed for other purposes, and existing published or documented data on the hazardous waste or on waste generated from similar process may supplement the waste analysis plan.
 5. Samples taken for the purpose of collecting specified categories of data such as waste compatibility shall be representative of the monitored activity.
 6. The owner or operator shall retain records of all data collection as part of the operating record until closure of the facility.
 7. Records of data collection shall include:
 - a. The date, exact place, and time of sampling or measurement;

- b. The individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. The individual(s) who performed the analyses;
- e. The analytical techniques or methods used;
- f. The results of such analyses.

L. Security

1. The owner or operator shall prevent the entry of unauthorized persons or livestock onto the active portion of the facility by maintaining the following:
 - a. A fence in good condition or other artificial or natural barrier which completely surrounds the facility and has gates or other means to control entry; or
 - b. A 24-hour surveillance system which continuously monitors and controls entry to the facility; or
 - c. The security procedures as described in the approved Operation Plan.
2. Signs indicating that the facility, or the hazardous waste area of the facility, contains hazardous waste shall be placed on the perimeter fence at the entrance and at locations where it is anticipated that unauthorized persons may enter the active portion of the facility.

Wording of the signs shall be in English, "Caution—Hazardous Waste Area—Unauthorized Persons Keep Out", and Spanish, "Cuidado! Zona de Residuos Peligrosos. Prohibida la Entrada a Personas No Autorizadas". Signs shall be legible from a distance of 25 feet.

M. Inspections

1. The owner or operator shall inspect the facility for malfunctions and deterioration, operator errors, and discharges which may cause or may lead to the release of hazardous waste constituents to the environment or a threat to human health. The owner or operator shall conduct these inspections often enough to identify problems in time to correct them before they harm human health or the environment.
2. The owner or operator shall inspect all monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment (such as dikes and pumps) that are

important to preventing, detecting, or responding to the environmental or human health hazards in accordance with the written inspection schedule in the approved Operation Plan.

3. The owner or operator shall test and maintain all safety and emergency equipment (alarm systems, fire protection equipment, spill control equipment, decontamination equipment) as necessary to ensure proper operation in the event of an emergency.
4. In accordance with the written inspection schedule in the approved Operation Plan, the owner or operator shall inspect:
 - a. Discharge and overfilling control equipment, at least once each operating day, to ensure that it is in good working order;
 - b. Data gathered from monitoring equipment, at least once each operating day, to ensure that the tank is being operated according to its design;
 - c. The level of waste in the tank, at least once each operating day, to ensure compliance with item III.C.2.a (5);
 - d. The construction materials of, and the area immediately surrounding the tank, at least weekly, to detect corrosion or leaking of fixtures or seams.
5. In accordance with the written inspection schedule of the approved Operation Plan, the owner or operator shall inspect:
 - a. Treatment process equipment, at least once each operating day, to ensure that it is in good working order;
 - b. Process and operations monitoring equipment, at least once each operating day, to ensure that the treatment process or equipment is being operated according to its design;
 - c. The construction materials of the treatment process or equipment, at least weekly, to detect corrosion or leaking of fixtures or seams; and
 - d. The construction materials of, and the area immediately surrounding discharge confinement structures, at least weekly, to detect obvious signs of leakage.
6. The owner or operator shall remedy any deterioration or malfunction of equipment or structures which the inspection identified as soon as possible to ensure that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action shall be taken immediately as described in the contingency plan.

7. The owner or operator shall record inspections in an inspection log or summary and shall keep these records for at least three years from the date of inspection.

The Permittee shall follow the inspection schedule below:

Storage/Treatment Tanks Inspection Schedule

<u>Equipment/ Structure Item</u>	<u>Inspection Element/Type of Problem</u>	<u>Inspection Frequency</u>
Truck Loading/ Unloading Areas	- Check for spills	Daily
	- Check hoses for leaks	Daily
	- Check Containment Areas for signs of deterioration	Daily
	- Check containment sump for liquids	Daily
Storage Tanks	- Check tank exterior for cracks, leaks corrosion and deformation	Daily
	- Record liquid level for each tank	Daily
	- Monitoring equipment	Daily
	- Temperature alarm equipment	Daily
	- Sewer discharge pH and flow recorders	Daily
	- Level of Waste in each tank	Daily
	- Overfill Controls	Daily
	- Data Gathered From Monitoring and Leak Detection Systems	Daily
Containment Areas	- Check for evidence of spills	Daily
	- Check for gaps or deterioration of concrete	Daily
	- Check for evidence of seepage outside of containment area	Daily
	- Check containment sump for liquids	Daily
	- Check for erosion	Daily
	- Check for spills	Daily
Piping, Valves and Pumps	- Check for corrosion and deterioration	Daily
	- Check for leaks	Daily
	- Check for proper caps on open-ended lines	Daily

Container Storage Unit Inspection Schedule

<u>Equipment/ Inspection Structure Item</u>	<u>Inspection Element/Type of Problem</u>	<u>Inspection Frequency</u>
Container Loading/ Unloading Area	- Check for spills	Weekly
	- Check for proper clean-up of spill materials	Weekly
Stored Containers	- Check for spills	Weekly
	- Check for adequate aisle space	Weekly
	- Check for welling or corroded drums	Weekly
	- Check for leaking drums	Weekly
	- Check to ensure that containers are kept closed	Weekly
	- Check for proper labels	Weekly
Containment Area	- Check to ensure drums are properly located	Weekly
	- Check for damage to containment walls berms and floor	Weekly

Security Devices Inspection Schedule

<u>Equipment</u>	<u>Inspection Element/Type of Problem</u>	<u>Inspection Frequency</u>
Facility Gates	- Check for proper signs	Weekly
	- Check for proper locks on emergency gates	Weekly
Lights	- Check for proper operation	Weekly
Facility Fence	- Inspect entire fence for breeches or damage	Weekly
	- Inspect entire fence for warning signs	Weekly

Safety and Emergency Equipment Inspection Schedule

<u>Equipment</u>	<u>Inspection Element/Type of Problem</u>	<u>Inspection Frequency</u>
Protective Gear	- Check for adequate supply for each area	Monthly
	- Check for deterioration and damage	Monthly

SCBA Units	- Check for accessibility	Weekly
	- Check for adequate supply of air tanks	Weekly
	- Check for full charge on air tanks	Monthly
	- Check for deterioration and damage	Monthly
First Aid Kits	- Check for accessibility	Weekly
	- Check kits for full supply	Monthly
Emergency Shower and Eye Wash Units	- Check to ensure proper operation	Weekly
	- Check for accessibility	Weekly
	- Check for adequate water pressure	Weekly
	- Check for deterioration and damage	Weekly
	- Check for proper operation	Weekly
Fire Extinguishers	- Check to ensure that access is not blocked	Weekly
	- Check inspection tag to ensure annual maintenance is current	Monthly
	- Check seal to ensure that extinguisher has not been used	Weekly

Inspections shall be conducted by qualified individuals trained in inspection and follow-up procedures, documentation and recordkeeping requirements and safety and Contingency planning procedures. The Permittee shall remedy any deterioration or malfunction discovered by an inspection, as required by 40 CFR 264.15(c). Records of inspection shall be kept, as required by 40 CFR 264.15(d). The Permittee shall document compliance with the General Inspection Requirements. [40 CFR 264.195(d)].

N. Personnel Training

1. Facility personnel shall successfully complete the program of classroom instruction or on-the-job training which teaches them to perform at a level that ensures the facility's compliance with Chapter 6.5 of Division 20, H&S Code, and with Chapter 30, Division 4, Title 22, CCR.
2. Personnel shall have successfully completed this program within six months after the date of their employment or assignment to a facility, or to a new position at the facility, whichever is later. Employees hired after the effective date of this permit shall not work in unsupervised positions until they have completed these training requirements.
3. Facility personnel shall take part in an annual review of the required training.
4. The owner or operator shall maintain the training records as identified in the approved Operation Plan.

5. Training records on current personnel shall be kept until closure of the facility. Training records on former employees shall be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company.

0. Contingency Plan

1. Implementation

- a. The owner or operator shall follow the contingency plan described in the approved Operation Plan.
- b. The provisions of the contingency plan shall be carried out immediately wherever there is a fire, explosion, release of hazardous waste or hazardous waste constituents which could threaten human health or the environment.

2. Distribution

A copy of the contingency plan and all revisions to the plan shall be:

- a. Maintained at the facility; and
- b. Submitted to all local police departments, fire departments, hospitals, contractors, and state and local emergency response teams that may be called up to provide emergency services.

3. Amendment of Contingency Plan

The contingency plan shall be reviewed and immediately amended, if necessary, whenever:

- a. Applicable regulations are revised;
- b. The plan fails in an emergency;
- c. The permit is revised;
- d. The list of emergency coordinators changes;
- e. The list of emergency equipment changes; and
- f. The facility changes in its design, construction, operation, or maintenance in a way that materially increases the potential for fire, explosions, or releases of hazardous waste.

The owner or operator shall notify the Department of all amendments to the contingency plan.

4. Emergency Coordinator

At all times there shall be at least one 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 for coordinating all emergency response measures. This emergency coordinator shall be thoroughly familiar with all aspects of the facility's contingency 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 shall have the authority to commit the resources needed to carry out the contingency plan.

5. Emergency Procedures

- a. Whenever there is an imminent or actual emergency situation, the emergency coordinator (or his designee when the emergency coordinator is on call) shall follow the procedures of the contingency plan as described in the approved Operation Plan.
- b. The owner or operator shall notify the Department and appropriate state and local authorities that the cleanup procedures are complete and all emergency equipment listed in the contingency plan is clean and fit for its intended use before the operations are resumed.
- c. The owner or operator shall note in the operating record the time, date, and details of any incident that requires implementing the contingency plan.
- d. The owner or operator shall submit within 24 hours an oral report and within 5 days a written report of each incident to the Department in accordance with item II.G.12. The Office of Emergency Services shall also be notified.

6. Arrangements With Local Authorities

- a. The owner or operator shall ensure that emergency response arrangements with local authorities are in effect upon the effective date of this permit.
- b. If local authorities refuse to enter into preparedness and prevention arrangement with the owner or operator, the owner or operator shall document this refusal in the operating record.

P. Required Equipment

1. The owner or operator shall have available at the facility all required safety and emergency equipment as described in the approved Operation Plan.
2. The facility water supply system shall be capable of providing water in adequate volume and pressure to maintain water hose streams.
3. Owner or operator shall maintain access to communications or alarm systems specified in the approved Operation Plan.

All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment shall be tested and maintained as necessary to ensure its proper operation in the time of emergency.

Q. Required Aisle Space

The owner or operator shall maintain aisle space as needed to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment.

R. Record Keeping and Reporting

1. Availability, Retention, and Disposition of Records
 - a. All records, including plans required in this permit, shall be furnished upon request and made available at all reasonable times for inspection by any officer, employee, or representative of the Department, State Water Resources Control Board, or Regional Water Quality Control Board.
 - b. The owner or operator shall maintain until closure is completed and certified by an independent engineer registered in California the following records, reports, documents, and all amendments, revisions, and modifications thereof at the owner or operator's place of business and at the facility, so as to be available at all times to operating personnel:
 - (1) Operating record.
 - (2) Training records for current employees.
 - (3) Hazardous Waste Facility Permit.
 - (4) Waste analysis plan.
 - (5) Contingency plan.

- (6) Closure plan.
 - (7) Closure cost estimate.
 - (8) Inspection schedules.
- c. The owner or operator shall retain the following records at the facility for at least three years:
- (1) Inspection record.
 - (2) Training records for former employees.
 - (3) Copies of each manifest received (off-site facility).
- d. The retention period for all records required in this permit is extended automatically during the course of any unresolved enforcement action regarding the facility to which the records may be pertinent or as requested by the Department.

2. Operating Records

- a. The owner or operator shall keep a written operating record at the facility.

The following information shall be recorded, as it becomes available, and maintained in the operating record until the closure of the facility:

- (1) The description and the quantity of each hazardous waste received, and the method(s) and date(s) of its storage and treatment the facility;
 - (2) Records and results of waste analyses and trial tests performed;
 - (3) Summary reports and details of all incidents that required implementing the contingency plan;
 - (4) Records and results of inspections (except these data need be kept only three years);
 - (5) Monitoring, testing, or analytical data;
 - (6) All closure cost estimates; and
 - (7) All waste minimization certifications.
- b. When the owner or operator receives hazardous waste from an off-site source, he must inform the generator in writing that he has the appropriate permit(s) for, and will accept,

the waste the generator is shipping. The owner or operator shall keep a copy of this written notice as part of the operating record.

3. Reporting and Notification Requirements

a. All reports and information requested by the Department shall satisfy the signatory requirements in item II.H. The waste minimization certifications as required in item II.J shall be signed in accordance with II.H.

b. Annual Report

The owner or operator shall prepare and submit one copy of an annual report to the Department and one copy to the appropriate Regional Water Quality Control Board by March 1 of each year. The annual report shall cover facility activities during the previous calendar year and shall include the following information:

- (1) The EPA identification number, name, and address of the facility;
- (2) The calendar year covered by the report;
- (3) Updated closure cost estimate for the facility;
- (4) The EPA identification number of each hazardous waste generator from which the facility received a hazardous waste during the year; for imported shipment, the report shall give the name and address of the foreign generator;
- (5) The description, quantity, and method of treatment, storage, and/or disposal of each hazardous waste the facility received during the year, listed by the EPA identification number of each generator; and

S. Closure

1. Closure Plan and Amendment of Plan

- a. The owner or operator shall comply with the closure plan as described in the Volume 1A of the Operation Plan.
- b. The owner or operator may amend his closure plan at any time during the active life of the facility. (The active life of the facility is that period during which wastes are periodically received.) The owner or operator shall propose to amend his plan any time changes in operating plans or facility design affect

the closure plan or whenever there is a change in expected year closure.

- c. The owner or operator shall submit to the Department for approval, at least 60 days prior to the proposed change in facility design or operation, any proposed amendment made to the closure plan.
- d. The owner or operator shall notify the Department at least 180 days before the date he expects to begin closure.

2. Time Allowed for Closure

- a. Within 90 days after receiving the final volume of hazardous wastes or 90 days after approval of the closure plan, if that is later, the owner or operator shall treat all hazardous waste in storage or in treatment or remove them from the site in accordance with the approved closure plan.
- b. The owner or operator shall complete closure activities in accordance with the approved closure plan within 180 days after receiving the final volume of waste or 180 days after approval of the closure plan, if that is later.

3. Disposal or Decontamination of Equipment

- a. When closure is completed, all facility equipment and structures shall have been properly disposed of or decontaminated by removing all hazardous waste and residues.
- b. At closures, all hazardous waste and hazardous waste residues shall be removed from treatment processes and equipment, discharge control equipment, and discharge confinement structures in accordance with the approved closure plan.

4. Certification of Closure

When closure is completed, the owner or operator shall submit to the Department certification both by the owner or operator and by an independent qualified engineer registered in California that the facility has been closed in accordance with the specifications in the approved closure plan.

T. Financial Responsibility

1. Cost Estimate for the Facility Closure

- a. The owner or operator shall have a written estimate of the cost of closing the facility in accordance with the applicable closure requirements of this permit. The owner or operator shall keep this estimate and all subsequent estimates at the facility. The estimate shall equal the cost of closure at the point in the facility's operating life when the extent and manner of its operation would make closure the most expensive as indicated by its closure plan.
- b. The owner or operator shall prepare a new closure cost estimate whenever a change in the closure plan affects the cost of closure.
- c. By March 1 of each year, the owner or operator shall adjust the latest closure cost estimate using an inflation factor derived from the annual Implicit Price Deflator for Gross National Product as published by the U. S. Department of Commerce in its SURVEY OF CURRENT BUSINESS. The inflation factor shall be calculated by dividing the latest published annual deflator by the deflator for the previous year. The result is the inflation factor.

The adjusted closure cost estimate shall equal the latest closure cost estimate times the inflation factor.

- d. The adjusted closure cost estimate shall be submitted to the Department as part of the annual report required in item III.R.3.b.

2. Financial Assurance and Liability

a. Financial Assurance

The owner or operator shall demonstrate to the Department continuous compliance with applicable section of Article 17, Title 22, CCR, by providing documentation of financial assurance in at least the amount of the cost estimates required by item III.T.1.a.

b. Liability

The owner or operator shall demonstrate to the Department continuous compliance with H&S Code, Section 25245, and applicable sections of Article 17,

Title 22, CCR, by providing documentation of liability coverage in the required amounts.

The owner or operator who fulfills the requirements above will be deemed to be without the required financial assurance and liability coverage in the event of a bankruptcy, insolvency, or a suspension or revocation of the license or charter of the issuing institution. The owner or operator must obtain other financial assurance/liability coverage within 60 calendar days of such events.

The owner or operator shall comply with all other financial responsibility and facility closure requirements of the Department when enacted.

IV. COMPLIANCE SCHEDULE

A. Reports of compliance or noncompliance with interim or final requirements contained in any compliance schedule established or approved by the Department shall be submitted to the Department no later than 14 days following each scheduled date.

B. The following compliance time schedule items must be met:

<u>Item</u>	<u>Date Due to DHS</u>
1. Submittal of the closure plan and amendment of plan	120 days prior to closure
2. Documentation of financial assurance for closure	Within 45 days of approval of the final closure plan
3. Foundation, Sub-surface Preparation, secondary containment and replacement of tanks F-1 and F-2 located in the ferric chloride area	Within 60 days of the effective date of the permit
4. Submittal of the certification of the replaced tanks for seismic and hydrostatic load test; chemical compatibility; integrity of the containment by a registered civil engineer in the state of California	Within 90 days of the effective date of the permit
5. Sampling and analysis plan for closure	120 days prior to closure
6. Construction and operation of cyanide destruction unit	Within 30 days after EPA and DHS approval of final corrective measure study report and receipt of written notification from both agencies to begin construction

V. CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS

A. CONSENT ORDER

~~This Permit does not terminate, alter, or amend any obligations in RCRA # 3008(h) Consent Order No. RCRA 09-89-0001 ("the Order"). The provisions of Section V.D. below will be effective upon termination of the Order. All other provisions of this Section (Section V) are effective on the effective date of the Permit.~~

B. DEFINITIONS

For purposes of this Section (Section V) the following definitions shall apply:

"Facility" means all contiguous property under the control of the owner or operator seeking a permit under Subtitle C of RCRA.

"Release" means any spilling, leaking, pouring, emitting, emptying, discharging, injecting, pumping, escaping, leaching, dumping, or disposing of hazardous wastes (including hazardous constituents) into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing hazardous wastes or hazardous constituents).

"Solid Waste Management Unit" (SWMU) means any discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid and/or hazardous waste. Areas contaminated by "routine, deliberate, and systemic discharges" from process areas are also considered to be SWMU,s.

"Hazardous Waste" means a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed. The term hazardous waste includes hazardous constituent as defined below.

"Hazardous Constituent" means any constituent identified in Appendix VIII of 40 C.F.R. Part 261, or any constituent identified in Appendix IX of 40 C.F.R. Part 264.

C. BACKGROUND

A RCRA Facility Assessment (RFA) was conducted in 1987 to identify and evaluate SWMU,s and other areas of concern at the Southern California Chemical facility. Under contract to EPA, A.T. Kearney and Science Applications International Corporation prepared an RFA report summarizing the assessment findings. In preparing the RFA report, A.T. Kearney, Inc. and

Science Applications International Corporation, reviewed files, evaluated existing data, conducted interviews and performed a site inspection to evaluate the potential for releases of hazardous wastes or hazardous constituents from all SWMU,s identified during the assessment.

The RFA identified a total of 60 SWMU,s and one Area of Concern at the Southern California Chemical facility. The RFA report concluded that groundwater under the facility was contaminated with chromium, that there had been releases to soil from certain SWMU,s and that the majority of the SWMU,s needed further investigation to determine if releases had occurred.

Summary of SWMU,s

Listed below are the 60 SWMU,s and one Area of Concern identified in the RFA report (47 are actually listed because some SWMU,s have multiple units). The numerical designation corresponds to the subsection of the RFA report where the SWMU is described. The SWMU locations are shown on the facility map in Figure 2.

- Unit 4.1 - Copper Cement Drying Pond No. 7
- Unit 4.2 - Rainwater Holding Pond No. 3 (a.k.a. Tank No. 3)
- Unit 4.3 - Pond No. 8 (a.k.a. Zinc Pond)
- Unit 4.4 - Pond No. 1 (a.k.a. Settling Pond, Tank No. 1)
RCRA - regulated)
- Unit 4.5 - Two 12,000 Gallon Holding Tanks (2 Units)
- Unit 4.6 - Pond No. 2 (a.k.a. Tank No. 2)
- Unit 4.7 - Wastewater Treatment Tanks W-1 and W-2 (2 Units)
- Unit 4.8 - Wastewater Treatment System Filter Press
- Unit 4.9 - Former Three Stage Clarifier
- Unit 4.10 - New Three Stage Clarifier
- Unit 4.11 - Old Wastewater Treatment System (3 Units)
- Unit 4.12 - Old Chromic-Sulfuric Underground Storage Tank
- Unit 4.13 - 10,000 Gallon Spent Chrome-Sulfuric Acid Tank
(a.k.a. SC-1)
- Unit 4.14 - Disposal Pit

- Unit 4.15 - Drum Wash Area and Sump (2 Units)
- Unit 4.16 - Truck Wash Area
- Unit 4.17 - Ferric Chloride Area Drum Washing Unit
- Unit 4.18 - Ferric Chloride Area Filter Press
- Unit 4.19 - Ferric Chloride Area Filter Press Sump (a.k.a.
Sump 10)
- Unit 4.20 - RCRA-Regulated Drum Storage Area
- Unit 4.21 - Drum Storage Area #1
- Unit 4.22 - Drum Storage Area #2
- Unit 4.23 - Drum Storage Area #3
- Unit 4.24 - Drum Storage Area #4
- Unit 4.25 - Drum Storage Area #5
- Unit 4.26 - Pre-1975 Sump 2 (not shown)

Unit 4.27 - Pre-1975 Sump 3 (not shown)
Unit 4.28 - Pre-1975 Sump 4 (not shown)
Unit 4.29 - Pre-1975 Sump 5 (not shown)
Unit 4.30 - Pre-1975 Sump 7 (not shown)
Unit 4.31 - Sump 1
Unit 4.32 - Sump 2
Unit 4.33 - Sump 3-C
Unit 4.34 - Sumps 3-A and 3-B
Unit 4.35 - Sump 4
Unit 4-36 - Sumps 5-A, 5-B, 5-C (3 Units)
Unit 4-37 - Sump 6-A
Unit 4-38 - Sump 6-B
Unit 4-39 - Sump 7
Unit 4-40 - Sump 8
Unit 4-41 - Sump 9
Unit 4-42 - Sumps 13 and 14 (2 Units)
Unit 4-43 - Sump 16
Unit 4-44 - Wastewater Treatment System Sump
Unit 4-45 - In-Road Collection Sump
Unit 4-46 - Six Vacuum Trucks (6 Units)
Unit 4-47 - Copper Cement Drying Ponds (Area of Concern)

Corrective Action Required For Existing SWMUs

EPA and Southern California Chemical are parties to RCRA # 3008(h) Consent Order No. RCRA 09-89-0001. The Order, which became effective on December 8, 1988, requires that Southern California Chemical investigate hazardous waste releases at the facility. Under the Order, Southern California Chemical will: (1) perform a RCRA Facility Investigation (RFI) to determine fully the nature and extent of any release of hazardous waste and hazardous constituents at or from the facility and (2) develop a Corrective Measures Study (CMS) to identify and evaluate alternatives for the corrective action necessary to prevent or mitigate any releases of hazardous wastes or constituents at or from the facility. As part of the RFI, Southern California Chemical will investigate any releases from SWMUs at the facility.

D. POST-ORDER CORRECTIVE ACTION CONDITIONS

1. Reporting Requirements

- a. Beginning with the month following termination of the Order, the Permittee shall provide the Department with monthly progress reports for all activities conducted pursuant to this Section (Section V) of the Permit. The progress reports for each month shall be submitted to the Department by the tenth day of the following month. These reports shall contain:

- i. A description of the work completed;
 - ii. Summaries of all findings, including summaries of laboratory data;
 - iii. Summaries of all problems or potential problems encountered during the reporting period and actions taken to rectify the problems; and
 - iv. Projected work for the next reporting period.
- b. Copies of other reports (e.g. inspection reports), drilling logs and laboratory data shall be made available to the Department upon request.
 - c. As specified under Permit Condition V.E.1.d., the Division Director may require the Permittee to conduct new or more extensive assessments, investigations, or studies, as needed, based on information provided in these progress reports or other supporting information.

2. Interim Measures

- a. All plans for interim measures required by the Order are incorporated into this Permit by reference and become an enforceable part of this Permit. Any noncompliance with such approved plans shall be termed noncompliance with this Permit. Extensions of the due dates for submittals may be granted by the Department in accordance with the permit modification processes under 40 C.F.R. 270.41.
- b. If during the course of any activity initiated under this Section (Section V) of the Permit, the Department determines that a release or potential release of hazardous waste including hazardous constituents from a SWMU poses a threat to human health and the environment, the Department may specify interim measures. The Department shall determine the specific action(s) that must be taken to implement the interim measures, including potential permit modifications and any schedule for implementing the required measures. The Department shall notify the Permittee in writing of the requirements to perform such interim measures. The Department shall modify this Section (Section V) of the Permit according to procedures in Section V.E.2. of this Permit, or according to the permit modification procedures under 40 C.F.R. 270.41, to incorporate such interim measures into the Permit.
- c. The following factors may be considered by the Division Director in determining the need for interim measures:

- i. Time required to develop and implement a final remedy;
- ii. Actual and potential exposure of human and environmental receptors;
- iii. Actual and potential contamination of drinking water supplies and sensitive ecosystems;
- iv. The potential for further degradation of the medium absent interim measures;
- v. Presence of hazardous waste in containers that may pose a threat of release;
- vi. Presence and concentration of hazardous waste including hazardous constituents in soils that have the potential to migrate to ground water or surface water;
- vii. Weather conditions that may affect the current levels of contamination;
- viii. Risks of fire, explosion, or accident; and ix. Other situations that may pose threats to human health and the environment.

3. Remedy Selection

- a. Based on the results of the EPA approved final corrective measures study report prepared under the Order and any further evaluations of additional remedies under this study, the Department shall select a remedy from the remedial alternatives evaluated in the approved CMS report that will: (1) be protective of human health and the environment; (2) meet the concentration levels of hazardous constituents in each medium that the remedy must achieve to be protective of human health and the environment; (3) control the source(s) of release(s) so as to reduce or eliminate, to the maximum extent practicable, further releases that might pose a threat to human health and the environment; and (4) meet all applicable waste management requirements.
- b. In selecting the remedy which meets the standards for remedies established under Permit Condition V.D.3.a., the Department shall consider the following evaluation factors, as appropriate:
 - i. Long-term reliability and effectiveness. Any potential remedy(s) may be assessed for the long-term reliability and effectiveness it affords, along with the degree of certainty that the remedy will prove successful. Factors that shall be considered in this evaluation include:
 1. Magnitude of residual risks in terms of amounts and concentrations of waste remaining following implementation of a remedy, considering the persistence, toxicity, mobility

and propensity to bioaccumulate of such hazardous wastes including hazardous constituents;

2. The type and degree of long-term management required, including monitoring and operation and maintenance;
3. Potential for exposure of humans and environmental receptors to remaining wastes, considering the potential threat to human health and the environment associated with excavation, transportation, redisposal or containment;
4. Long-term reliability of the engineering and institutional controls, including uncertainties associated with land disposal of untreated wastes and residuals; and
5. Potential need for replacement of the remedy.
 - ii. Reduction of toxicity, mobility and volume. A potential remedy(s) may be assessed as to the degree to which it employs treatment that reduces toxicity, mobility or volume of hazardous wastes including hazardous constituents. Factors that shall be considered in such assessments include:
 1. The treatment processes the remedy(s) employs and materials it would treat;
 2. The amount of hazardous wastes including hazardous constituents that would be destroyed or treated;
 3. The degree to which the treatment is irreversible; and
 4. The residuals that will remain following treatment, considering the persistence, toxicity, mobility and propensity to bioaccumulate such hazardous wastes including hazardous constituents.
 - iii. The short-term effectiveness of a potential remedy(s) may be assessed considering the following:
 1. Magnitude of reduction of existing risks;
 2. Short-term risks that might be posed to the community workers, or the environment during implementation of such a remedy, including potential threats to human health and the environment associated with excavation, transportation, and redisposal or containment; and

3. Time until full protection is achieved.

iv. Implementability. The ease or difficulty of implementing a potential remedy(s) may be assessed by considering the following types of factors:

1. Degree of difficulty associated with constructing the technology;
2. Expected operational reliability of the technologies;
3. Need to coordinate with and obtain necessary approvals and permits from other agencies;
4. Availability of necessary equipment and specialists; and
5. Available capacity and location of needed treatment, storage and disposal services.

v. Cost. The types of costs that may be assessed include the following:

1. Capital costs;
2. Operation and maintenance costs;
3. Net present value of capital and operation and maintenance costs; and
4. Potential future remedial action costs.

4. Permit Modification For Remedy

Based on information the Permittee submits in the Final RFI Report, Final CMS Report and other information, the Department will select a remedy and initiate a permit modification to this Permit, pursuant to 40 C.F.R. Part 270 Subpart D.

The modification shall specify the selected remedy and include, at a minimum, the following:

- a. Description of all technical features of the remedy that are necessary for achieving the standards for remedies established under Permit Condition V.D.3.a., including length of time for which compliance must be demonstrated at specified points of compliance;

- b. All concentration levels of hazardous constituents in each medium that the remedy must achieve to be protective of human health and the environment;
- c. All requirements for achieving compliance with these concentration levels;
- d. All requirements for complying with the standards for management of wastes;
- e. Requirements for removal, decontamination, closure, or post-closure of units, equipment, devices or structures that will be used to implement the remedy;
- f. A schedule for initiating and completing all major technical features and milestones of the remedy; and;
- g. Requirements for submission of reports and other information.

E. CORRECTIVE ACTION PERMIT REQUIREMENTS

1. Standard Conditions

- a. Section 3004(u) of RCRA, as amended by the Hazardous and Solid Waste Amendments of 1984, and 40 C.F.R. 264.101, requires that permits issued after November 8, 1984 address corrective action for releases of hazardous wastes including hazardous constituents from any SWMU at a facility, regardless of when the waste was placed in the unit.
- b. Failure to submit the information required in this Section (Section V) of the Permit, or falsification any of submitted information, is grounds for termination of this Permit (40 C.F.R. 270.43). The Permittee shall ensure that all plans, reports, notifications and other submissions to the Department required in this Section (Section V) of the Permit are signed and certified in accordance with 40 C.F.R. 270.11. Three (3) copies of these plans, reports, notifications or other submissions shall be submitted to the Department and sent by certified mail, return receipt requested or by hand delivery to:

Regional Administrator
Facility Management Branch
Department of Health Services, Region 3
1405 N. San Fernando Blvd. #300
Burbank, California 91504

The Department may designate any member of the Facility Management Branch, Region 3 to receive any plans, reports, notifications or other submissions. The Department may delegate any authority under this Permit to any manager of the Facility Management Branch, Region 3. The Department will inform the Permittee in writing of any such designation and/or delegation.

- c. All plans and schedules required by this Section (Section V) of the Permit are, upon approval of the Department, incorporated into this Permit by reference and become an enforceable part of this Permit. Any noncompliance with such approved plans and schedules shall be termed noncompliance with this Permit.
- d. If the Department determines that further actions beyond those provided in this Section (Section V) of the Permit, or changes to that which is stated herein, are warranted, the Department shall modify this Section (Section V) of the Permit either according to the procedures in Section V.E.2. of this Permit, or according to the permit modification processes under 40 C.F.R. 270.41.
- e. All raw data, such as laboratory reports, drilling logs, bench-scale or pilot-scale data, and other supporting information gathered or generated during activities undertaken pursuant to the Order or this Section (Section V) of the Permit shall be maintained at the facility (or other location approved by the Department) during the term of this Permit, including any reissued Permits.

2. Modification of Corrective Action for Solid Waste Management Units (Section V)

- a. If at any time the Department determines that modification of this Section (Section V) of the Permit is necessary, the Department may initiate a modification to Section V according to 40 C.F.R. Part 270 Subpart D.
- b. Modifications to this Section (Section V) do not constitute a reissuance of the Permit.

3. Notification Requirements for and Assessment of Newly Identified Solid Waste Management Units

- a. The Permittee shall notify the Department in writing of any newly identified Solid Waste Management Unit(s) (i.e., a unit not specifically identified during the RFA and listed in Section V.C.), discovered during the course of groundwater monitoring, field investigations, environmental audits, or

other means, no later than fifteen (15) calendar days after discovery.

- b. After such notification, the Department may request, in writing, that the Permittee prepare a SWMU Assessment Plan and a proposed schedule for implementation and completion of the Plan for any additional SWMU,s discovered subsequent to the issuance of this Permit.
- c. Within forty-five (45) calendar days after receipt of the Director,s request for a SWMU Assessment Plan, the Permittee shall prepare a SWMU Assessment Plan for determining past and present operations at the unit, as well as any sampling and analysis of groundwater, land surface and subsurface strata, surface water or air as necessary to determine whether a release of hazardous waste including hazardous constituents from such unit(s) has occurred, is likely to have occurred, or is likely to occur. The SWMU Assessment Plan must demonstrate that the sampling and analysis program, if applicable, is capable of yielding representative samples and must include parameters sufficient to identify migration of hazardous waste including hazardous constituents from the newly identified SWMU,s to the environment.
- d. After the Permittee submits the SWMU Assessment Plan, the Department shall either approve or disapprove the Plan in writing.

If the Department approves the Plan, the Permittee shall begin to implement the Plan within fifteen (15) calendar days of receiving such written notification.

If the Department disapproves the Plan, the Director shall either (1) notify the Permittee in writing of the Plan,s deficiencies and specify a due date for submittal of a revised Plan, or (2) revise the Plan and notify the Permittee of the revisions. This Department-revised Plan becomes the approved SWMU Assessment Plan. The Permittee shall implement the Plan within fifteen (15) calendar days of receiving written approval.

- e. The Permittee shall submit a SWMU Assessment Report to the Department no later than thirty (30) calendar days from completion of the work specified in the approved SWMU Assessment Plan. The SWMU Assessment Report shall describe the approved SWMU Assessment Plan. At a minimum, the Report shall provide the following information for each newly-identified SWMU:

- i. The location of the newly-identified SWMU in relation to other SWMUs;
 - ii. The type and function of the unit;
 - iii. The general dimensions, capacities, and structural description of the unit (supply any available drawings);
 - iv. The period during which the unit was operated;
 - v. The specifics on all wastes that have been or are being managed at the SWMU, to the extent available; and
 - vi. The results of any sampling and analysis required for the purpose of determining whether releases of hazardous wastes including hazardous constituents have occurred, are occurring, or are likely to occur from the unit.
- f. Based on the results of this Report, the Department shall determine the need for further investigations at the specific unit(s) covered in the SWMU Assessment. If the Department determines that such investigations are needed, the Department may require the Permittee to prepare a plan for such investigations.

4. Notification Requirements for Newly-Discovered Releases at SWMU(s)

The Permittee shall notify the Department, in writing, of any new release(s) of hazardous waste including hazardous constituents discovered during the course of ground water monitoring, field investigation, environmental auditing, or other activities undertaken after commencement of the RFI required by the Order, no later than fifteen (15) calendar days after discovery. Such newly-discovered releases may be from newly identified units, from units for which, based on the findings of the RFA, the Department had previously determined that no further investigation was necessary. The Department may require further investigation of the newly-identified release(s).

5. Public Notification of Final RFI Report Availability

The Permittee shall mail the EPA approved Final RFI Report (or notice of its availability) to all individuals on the facility mailing list established pursuant to 40 CFR 124.10(c)(1) within fifteen (15) calendar days of receipt of approval.

F. COMPLIANCE SCHEDULE

The following time schedule must be met:

Submit First Monthly
Progress Report
(Section V.D.1.a.)

Tenth day of the month
following termination
of the Order

Monthly Progress Reports
(Section V.D.1.a.)

For each month on the
tenth day of the
following month

Interim Measures (Section
V.D.2.)
Submit Written Notification
of Newly Identified SWMJs
to Department
(Section V.E.3.)

As determined by the
Department
15 calendar days after
discovery

Submit Written Notification
of Newly Identified Releases
to Department
(Section V.E.4.)

15 calendar days after
discovery

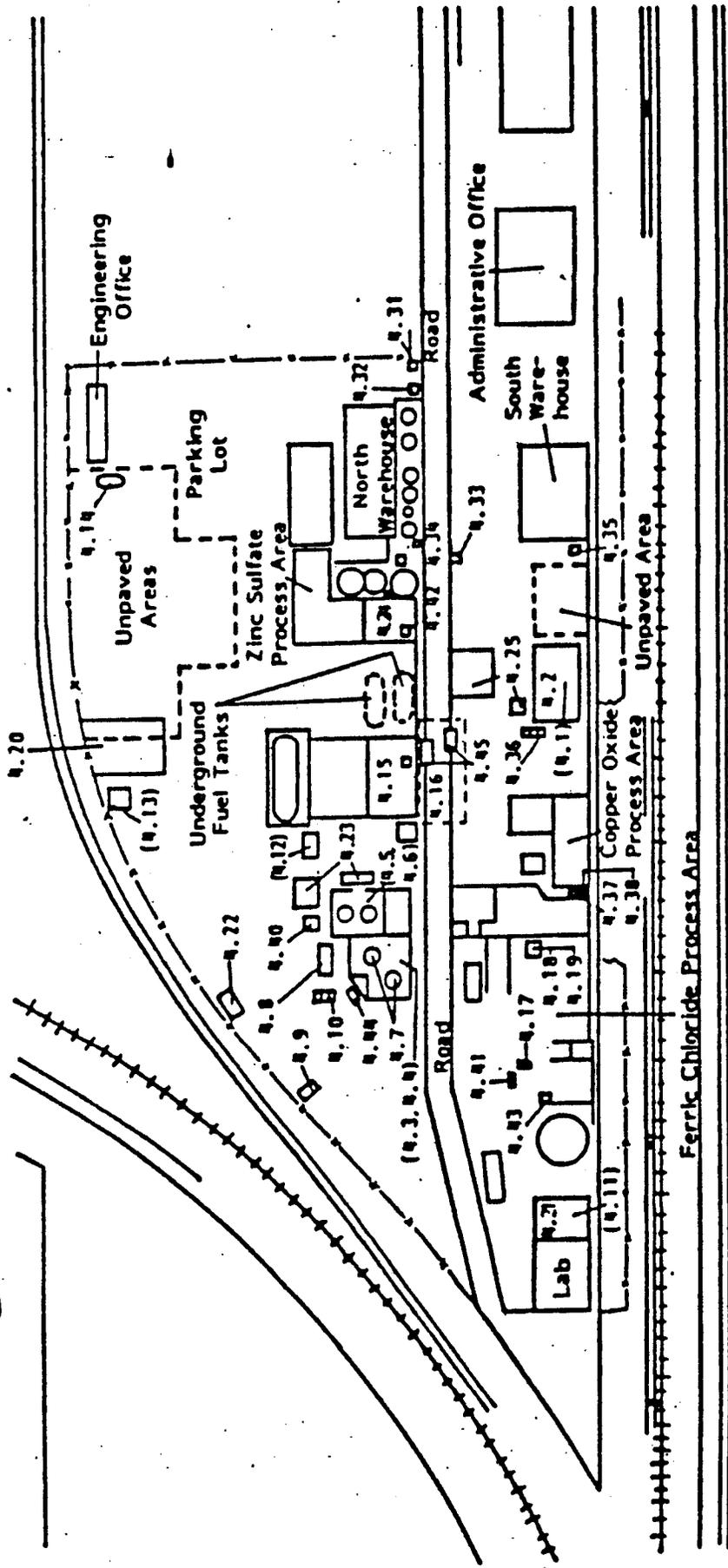
Mail Final RFI Report (or notice
of its availability) to Individuals
on Facility Mailing List
(Section V.E.5.)

15 calendar days after
approval of Final RFI
Report



Figure 1

SITE LOCATION OF SOUTHERN CALIFORNIA CHEMICAL CO.
 SANTA FE SPRINGS FACILITY



Note: Not Shown to Scale

• Parentheses indicate inactive units.

Figure 2

LOCATION OF SOLID WASTE MANAGEMENT UNITS AT SOUTHERN CALIFORNIA CHEMICAL

Attachment B

AGREEMENT

This Agreement (the "Agreement") is entered into by and between Entech Recovery Inc. a.k.a. Southern California Chemical ("SCC") and the City of Santa Fe Springs (the "City").

Whereas, the City, through the Planning Commission and Redevelopment Agency (the "PC/RA"), granted a Conditional Use Permit ("CUP") on or about May 27, 1988, to SCC to continue the operation and maintenance of an existing precious metal recovery and chemical recycling facility (the "Facility") in the M-2, Heavy Manufacturing zone at 8851 Dice Road, Santa Fe Springs, California, within the Consolidated Redevelopment Project, and to replace existing obsolete equipment at the Facility.

Whereas, on or about October 26, 1990, the City received draft state and RCRA hazardous waste facility permits issued by the California Department of Health Services ("DHS") and the United States Environmental Protection Agency ("EPA"), respectively, Permit No. 90-3-ST and EPA ID Number CAD008488025, dated October 25, 1990, for the SCC facility (the "Draft Permits"), arising out of the Part B Permit Application submitted on or about November 8, 1988, as modified by subsequent amendments dated May 4, 1990 and June 21, 1990 (the "Application").

Whereas, the City sent to SCC, DHS and EPA letters dated November 9, 1990, concerning the Draft Permits which set forth concerns of the City with respect to the Draft Permits and SCC's operations generally.

Whereas, the City and SCC enter into this Agreement so that the Permit process may continue without interruption or challenge by the City, while at the same time preserving, and not in any way preempting, all rights and approval authority of the City with respect to the proposed facility expansion and modifications and the SCC facility in general.

NOW, THEREFORE, for good and sufficient consideration, the parties hereto agree as follows:

1. Non-Interference with Draft Permit Process.

The City shall submit no further comments on the Draft Permits, other than those comments which are prepared, approved, and submitted jointly by SCC and the City, such as this Agreement, and the City shall take no action to oppose, interrupt, or interfere with the approval of the Draft Permits by DHS and EPA, ~~provided, however, that the Draft Permits shall remain in substantially the same form unless changes to the Draft Permits are expressly approved by the City.~~ The letter submitting this Agreement to DHS and EPA shall state that the City's comments have been appropriately addressed through the terms of this Agreement and that DHS and EPA shall consider such comments

satisfactorily resolved. If the types and quantities of hazardous waste, treatment processes, treatment capacity, or storage capacity applied for in the Application, as may be modified on or before the Permit comment deadline of January 14, 1991, are materially changed after said date without the prior express written approval of the City, this Agreement shall be voidable by the City.

2. Facility Expansion or Modifications. As provided by the CUP and City Ordinance No. 781, ¶ 25-26, SCC shall not make any change in or alteration of the existing operations of, nor make any modifications of the types and quantities of hazardous waste to be managed at the SCC facility, including but not limited to those contemplated by the EPA Draft Permit, Secs. III.B.(1) and IV.(A), the DHS Draft Permit, Secs. III.C.(3). and III.D., or the application, without the express prior approval of the City, including but not limited to approval of amendments to SCC's CUP, preparation of the appropriate documents required under the California Environmental Quality Act ("CEQA"), and its implementing regulations, and approval under any other applicable law.

3. Waiver of Rights. SCC hereby waives any right to challenge, through litigation or otherwise, any final action or decision by the City concerning the appropriate actions and documents required under CEQA or other applicable law with respect to expansions or modifications provided for in the

Application. This does not waive or limit SCC's rights to pursue any appeals provided for by City ordinance or practice.

4. Effect of Approval of Final Permits. Approval of Final Permits ("Final Permits") by DHS and EPA shall not preempt, nor have any effect whatsoever, on the City's rights and approval authority over any expansion or modifications of the SCC facility or SCC's operations generally. No such DHS or EPA approval, nor any decision reached by DHS or EPA during the course of the Permit approval process, including but not limited to, the DHS' Initial Study and Negative Declaration contained therein, shall be binding on, or in any way obligate, the City in actions taken or decisions reached by the City under CEQA or other applicable law with respect to the expansion or modifications provided for by the Final Permits, nor binding on, or in any way obligate, any other governmental agency under the Tanner Act, Health and Safety Code Sections 25135 et seq. with respect to such expansion or modifications; further, SCC shall not assert that any such DHS or EPA approval, or any decision reached by DHS or EPA during the course of the Permit approval process, including but not limited to, the DHS' Initial Study and Negative Declaration contained therein, binds or in any way obligates the City in actions taken or decisions reached by the City under CEQA or other applicable law with respect to any expansion or modifications provided for by the Final Permits, or binds or in any way obligates any other governmental agency under the Tanner Act, Health and Safety Code Sections 25135 et seq. with respect to such expansion or

modifications. Notwithstanding Public Resources Code § 21080.1, DHS' Negative Declaration shall not be conclusive on the City with respect to actions taken or decisions reached by it.

5. Inclusion in Draft Permits. The parties shall submit this Agreement to DHS as a written comment on the Draft Permits. SCC shall use its best efforts to ensure that the provision attached hereto as Exhibit A be added as a General Condition to the final permits granted to SCC by DHS and EPA.

6. Warranties. All persons and entities signing this Agreement represent and warrant that (a) they have the authority and capacity to make the arrangements set forth in this Agreement, and (b) they are they owners of and have not transferred, assigned or hypothecated any of the claims, rights, demands, and causes of action they have asserted or released herein.

8. Advice of Counsel. All persons and entities signing this Agreement represent and warrant to each other that they have had advice of counsel of their own choosing in negotiations for and the preparation of this Agreement and that they have read this Agreement or have had the same read to them by their counsel, and that they have had this Agreement fully explained by such counsel and that they are fully aware of its content and legal effect.

9. Assumption of Risk. All parties to this Agreement understand and agree that in entering into this Agreement, they have not relied on any statement of any other party or its attorney.

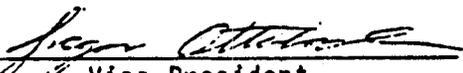
10. Attorney's Fees and Costs. The parties to this Agreement shall bear their own costs and attorneys' fees in connection with the preparation of this Agreement.

11. Execution of Counterparts. This Agreement shall be binding upon and for the benefit of the parties hereto, their respective successors, devisees, executors, affiliates, representatives, assigns, officers, directors, attorneys, agents and employees.

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement on the following days and year.

Dated: 1/14/91

Southern California
Chemical Co.

By 
Its Vice President

Dated: 1/14/91

The City of Santa Fe Springs

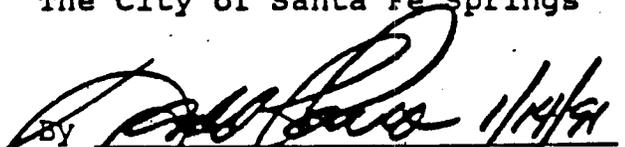
By  1/14/91
Its City Manager

EXHIBIT A

[Provision to be added to final state and RCRA hazardous waste facility permits issued by the California Department of Health Services ("DHS") and United States Environmental Protection Agency ("EPA"), respectively, Permit No. 90-3-ST and EPA ID Number CAD008488025, for the existing precious metal recovery and chemical recycling facility (the "Facility") in the M-2, Heavy Manufacturing zone at 8851 Dice Road, Santa Fe Springs, California, operated by Entech Recovery Inc. a.k.a. Southern California Chemical ("SCC").]

Compliance with City Requirements

SCC may not undertake the expansions or modifications of the SCC facility, including but not limited to those contemplated herein by this Permit, without the express prior approval of the City of Santa Fe Springs (the "City"). Approval of this Permit by DHS and EPA shall not preempt, nor have any other effect on, the City's rights and approval authority over any expansion or modifications of the SCC facility or SCC's operations generally.