

Controlled Substance Security Plan

(Schedules I, II, III, IV and V Controlled Substances)

Guidelines for Acquiring & Accounting for Controlled Substances for Scientific Use



Lawrence Berkeley National Laboratory University of California Berkeley, California

Effective March 7, 2007 Revision 2 - February 2008 (Draft)



Controlled Substance Security Plan for the

Ernest Orlando Lawrence Berkeley National Laboratory

February 2	2008
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Version 2 (DRAFT)

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Foreword

The Controlled Substance Protocol (Protocol) was created to comply with Section 802(6) of Title 21, 21 CFR Part 1300 of the United States Code & California Health & Safety Code Section 11100. The Lab is not a distributor of controlled substances as defined in Section 802. As such, a protocol needed to be created for Schedules I, II, III, IV, and V Controlled Substances use in science and research. Thus, in October 2006 the process of planning and developing the Protocol began.

The Protocol serves as a guide for Lab stakeholders who either use controlled substances in science and research projects or are involved in its procurement, receiving, delivering, handling, securing, inventorying, and disposal. The goal was to develop guidelines and best practices to ensure safety, accountability, security, and compliance when receiving, distributing, using and disposing of controlled substances.

The Protocol is a living document subject to updates as deemed by scientific research. When updates are needed, the Controlled Substances Advisory Committee (Appendix B) will convene to integrate newly introduced best practices.

Howard K. Hatayama Division Director Environmental, Health & Safety Division



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Revisions **Revision II** (February 2008) Section Revision Page All references to transporting controlled substances between UC Berkeley and LBNL are removed. Expanded to include Schedule III, IV & V subtances Appendix A Appendix E Removed Appendix D & F Changed to Appendix C & Appendix D 39 & 42 **Revision** I (May 2007) Section Revision Page 3 **Roles & Responsibilities** Principal Investigator (PI) PI designates an alternative signer for each order by providing a "Designated Alternate Signer" memo to Procurement's Controlled Substance Liaison Officer Upon receipt of chemical, PI enters inventory into Lab's Chemical Management System (CMS) Procurement Procurement receives "Designated Alternative Signer" memo from PI Security Security will contact University of California Police Department's Captain of Operations to arrange transport of substance to University of California Berkeley destination



Revision

4 **Acquisition Guidelines**

	• Initiation of Process PI provides Procurement with a "Designated Alternative Signer" memo indicating the name and signature of the full- time, LBNL employee who can sign for receipt of the substance in the absence of the PI	16
	• Procurement Procurement receives PI's "Designated Alternative Signer" memo and sends copy to Receiving	17
	• Receiving After delivery of substance, Receiving provides PI with a copy of the Controlled Substance Protocol	18
	Security	
	Provides a copy of the Controlled Substance Protocol to PI If destination of package is University of California- Berkeley, Security contacts UC Police Department's Captain of Operations to coordinate transport and delivery with a copy of the Controlled Substance Protocol	19 19
Appendix D	"Designed Alternative Signer" Sample Memo	38
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1 Executive Summary

Goals

- To ensure and maintain accountability of controlled substances
- To successfully facilitate obtaining controlled substances for research
- To ensure compliance with appropriate federal, state, and local codes, regulations and laws
- To make the protocol easily accessible and timely to all stakeholders and users to ensure continuity and consistency in the handling and use of controlled substances
- To develop and implement best practices in procurement, accountability, security, and disposal of controlled substances

Objective

To develop protocols to achieve the above stated goals in a safe and secure manner in support of science.

Summary

Controlled substances are regulated by Section 802(6) of Title 21, 21 CFR Part 1300, United States Code & California Health & Safety Code Section 11100. Scientists can use controlled substances in their research. It is LBNL's goal to develop guidelines and best practices to ensure safety, accountability, security, and compliance when receiving, distributing, using and disposing of controlled substances.

This protocol is developed to ensure consistency, accountability and make available a process in which all Lab stakeholders can use when working with controlled substances.



2 Controlled Substances Used at LBNL

The Controlled Substance Liaison Officer (CSLO) assists Principal Investigators (PIs) in procuring the following controlled substances for scientific use:

- Cocaine
- Demerol
- Ethanol
- Hydromorphone
- Morphine
- Nembutal
- Piperdine
- Phenylacetone
- Sodium Pentobarbital

Controlled substances listed on Schedules I, II, III, IV and V (Appendix A) are subject to the protocols contained in this document.

LBNL has a license to purchase only on Schedules I, II, III, IV and V substances. For any questions regarding these materials, please contact the Controlled Substance Liaison Officer (CSLO).

Absolutely no controlled substances can be transported between UC Berkeley and DOE facilities.



3 Roles and Responsibilities

Principal Investigator (PI)

- 1. Contacts Procurement (CSLO) to initiate controlled substance acquisition process for research usage
- 2. Maintains purchase, use and disposal records, documentation and usage log book
 - a. Schedules I, II, III, IV and V
 - b. If substance is brought to LBNL by a scientist from another lab, Lab Security must be notified¹
- 3. Completes proper paperwork for ordering
 - a. For each order, PI designates a back-up or assistant to receive delivery
 - b. The back-up or assistant must be a full-time, career LBNL employee (see Appendix C for sample "Designated Alternative Signer" memo)
- 4. Keeps controlled substances in a secured area
- 5. Chemical Management System
 - a. Upon receipt of chemical, enters data into Lab's Chemical Management System (CMS)
- 6. Reports theft, loss and movement on- and/or off-site to EH&S Security and Property Management immediately

Absolutely no controlled substances can be transported between UC Berkeley and DOE facilities.

¹ Note:

Any controlled substance <u>not</u> processed by the Controlled Substance Liaison Officer (CSLO) must be reported to the Lab Security Manager and/or Site Access Manager prior to its arrival at LBNL, e.g. a scientist from another lab brings a controlled substance to LBNL for use.

Once the controlled substance arrives at the Lab, the appropriate elements of this protocol apply.



Principal Investigator (PI)

- 1. Prior to disposal
 - a. Contact EH&S Waste Management for disposal
 - i. PI provides appropriate Project ID to Waste Management for disposal services
 - b. Contact Property Management to begin termination inventory
 - i. Custody terminates when substance is no longer required
- 2. Notifies Property Management
 - c. Upon first knowledge of termination of employment
 - d. Request inventory of assigned substance prior to termination
 - i. Inform supervisor of results of inventory
 - e. Transfer assigned substance to a new custodian prior to termination
 - i. Inform supervisor and Lab Security of transfer



Procurement

- 1. Registers with Drug Enforcement Agency and maintains license
- 2. Receives or requests from PI a "Designated Alternative Signer" memo and sends copy to Receiving for each purchase order
- 3. Maintains restricted item list
- 4. Designates primary and back-up buyer as the Controlled Substance Liaison Officer (CSLO)
- 5. Maintains Procurement Policy and Procedure
- 6. Approves and processes purchase requisitions
- 7. Sends copy of approved Purchase Order for any Controlled Substance to Property Management
- 8. Maintains purchase and registration records
- 9. Notifies Lab Security for new user lab security check
- 10. Reviews annual controlled substances inventory report
- 11. Participates on the Controlled Substance Advisory Committee (CSAC)

Receiving

- 1. Receives and secures controlled substance
- 2. Maintains receiving records
- 3. Notifies Lab Security of shipment arrival within 1 business day
 - a. Begins chain of custody process (See Appendix D: Chain of Custody Form)
 - b. Copies Property Management on notification to Lab Security of shipment arrival
- 4. Participates on the Controlled Substance Advisory Committee (CSAC)



Security

- 1. Assists with the transportation of the controlled substance, as required
- 2. Ensures controlled/secured storage, as required
- 3. Facilitates chain of custody process (see Appendix D: Chain of Custody Form)
- 4. Communicates with principal investigator to resolve any Security concerns
- 5. Establishes points of contact, as necessary, such as principal investigators
- 6. Reviews annual controlled substances inventory report
- 7. Participates on Controlled Substances Advisory Committee (CSAC)
- 8. Facilitates transfer of custody when Principal Investigator (PI) is terminated
 - a. Upon notification of PI termination, validates transfer of custody with Property Management and new custodian of substance
- 9. Facilitates police report upon notification of controlled substance theft or loss

Waste Management

- 1. Maintains contract with an appropriate vendor for proper disposal
- 2. Assists PI in packaging material for disposal
- 3. Processes contractor invoices for disposal
- 4. Interact with appropriate PIs/Users and agencies, as needed
- 5. Participates on the Controlled Substances Advisory Committee (CSAC)



Property Management

- 1. Performs annual physical inventory and begins termination inventory
 - a. Forwards results to CSLO, Lab Security and Procurement
- 2. Maintains appropriate records
- 3. Participates on the Controlled Substance Advisory Committee



4 Acquisition Guidelines

Initiation of Process

- 1. Researcher initiates purchase request
- 2. Pl approves researcher's request
- 3. Approved requisition is entered into PeopleSoft by appropriate division office
- 4. PI provides to Procurement a "Designated Alternative Signer" memo indicating the name and signature of the full-time, LBNL employee who can sign for receipt of the substance in the absence of the PI
- 5. CSLO (buyer) validates requisition and initiates procurement process

If substance is brought to LBNL by a scientist from another lab, Lab Security Manager and or Site Access Manager must be notified to ensure compliance with this protocol.



Procurement

- 1. Receives Principal Investigator's/Researcher's
 - a. Request for obtaining controlled substance through respective Division via ePro approval process
 - b. "Designated Alternative Signer" memo
- 2. Contacts respective vendor for
 - a. Pricing
 - b. Availability of item
- 3. Creates Purchase Order (PO) and forwards to Vendor
 - a. Forwards copy to Vendor and requires acknowledgement
 - b. Forwards copy of PO to PI
 - c. Forwards copy of PO to Property Management
 - d. Maintains original PO
 - e. Forwards Vendor acknowledgement to PI
- 4. Contacts Shipping & Receiving to make them aware of upcoming shipment
 - a. Sends email to <u>receiving@lbl.gov</u> and follows up with phone call with arrival date (within 24 hours before arrival of shipment) and tracking number
 - b. Forwards PO# to Shipping & Receiving
 - c. Sends copy of PI's "Designated Alternative Signer" to Receiving
- 5. Receives notification from Shipping & Receiving that substance has arrived
 - a. Contacts PI to indicate substance has arrived and ready for pick-up or transport by Lab Security



Receivi<u>ng</u>

- 1. Receives substance
 - a. Staff reviews work instruction for distribution of substance
 - b. Carrier arrives at Building 69 Receiving Dock
 - c. Package is received
 - d. Scanned into Tracking System (starts paper trail)
 - e. Informs Receiving staff and sends confirmation email to CSLO (buyer)
 - f. Secures in cage
- 2. Notifies PI or Authorized Signer for Transfer
 - a. PI travels to Building 69 to take possession of package or
 - b. Package may be delivered via Lab Security or Lab Transportation and PI signature required upon delivery.
- 3. Initiates Delivery
 - a. Initiates chain of custody process (see Appendix D: Chain of Custody Form)
 - b. After delivery by Transportation is complete (Receiving Lead)
 - c. Notifies Property Management of completed delivery
 - d. Forwards a copy of Signed Record provided to Property Specialist
- 4. Releases controlled substance to
 - a. PI with a copy of the Controlled Substance Protocol
 - b. Or Lab Security



Security

- 1. Assist with transportation, as required
- 2. Ensures controlled/secured storage, as required
- 3. Continues chain of custody process
- 4. Communicates with PI to resolve any security concerns
- 5. Provides a copy of the Controlled Substance Protocol to PI or Designee's Authorized Signer
- 6. Establishes points of contact, as necessary

Transportation

- 1. Delivers package via the Lab Transportation Department
- 2. Uses IBox tracking system to maintain the chain of custody of the controlled substance package
- 3. Releases or delivers package to the name listed on the package
 - a. Signature is required with proof of identification via Lab badge
- 4. Ensures controlled/secured storage, as required
- 5. Notifies Receiving upon completion of delivery



Principal Investigator (PI) / Researcher

- 1. Picks-up substance from Shipping & Receiving or receives from Lab Security and/or Site Access Manager
 - a. Signs and maintains chain of custody form
 - b. Receives copy of Controlled Substance Protocol
- 2. Keeps controlled substances in a secured area
- 3. Reports theft, loss, or movement on- and/or off-site to Lab Security and Property Management² immediately
- 4. Contacts Procurement and EH&S Waste Management to begin disposal procedure
 - a. Provides a valid Project ID for contract disposal services.
- 5. Notifies Security upon termination of PI employment
- 6. Contacts CSLO if additional substance is needed when original substance is depleted

Absolutely no controlled substances can be transported between UC Berkeley and DOE facilities.

² Note:

Any controlled substance <u>not</u> processed by the Controlled Substance Liaison Officer (CSLO) must be reported to the Lab Security Manager and/or Site Access Manager prior to its arrival at LBNL, e.g. a scientist from another lab brings a controlled substance to LBNL for use.

Once the controlled substance arrives at the Lab, the appropriate elements of this protocol apply.



Property Management

- 1. Performs annual physical inventory and termination inventory
 - a. Schedules annual inventory
 - b. Conducts inventory
 - c. Prepares inventory report
- 2. Issues inventory report to Director, EH&S
 - a. Copy to Procurement Director
 - b. Copy to CSLO
 - c. Copy to Lab Security Manager
 - d. Copy to Office of Internal Audit (OIA)
- 3. Maintains appropriate records
 - a. Updates controlled substance records upon notification of custody status changes (e.g. termination of PI, relocation of substance, transfer of custody)
- 4. Provides controlled substance disposal container and paperwork to PI



5 Disposal

Waste Management

- 1. Assist the PI in preparing the controlled substance for disposal according to Waste Management process and protocols
- 2. Process the invoice using the PI-supplied Project ID
- 3. Interact with regulatory agencies as needed



6 Controlled Substance Advisory Committee

Program Overview

A Controlled Substance Advisory Committee (CSAC) has been established and shall meet when necessary to discuss controlled substance issues that impact this protocol. The members of the advisory committee are:

Chair	Division Director, Environmental, Health & Safety (EH&S) or designee			
Committee Mombors	Control Substance Liaison Officer, OCFO – Procurement			
Members	Security Manager, Security & Emergency Operations (SEO) Group Leader, EH&S			
	SEO Program Manager, EH&S – SEO			
	Security Operations Manager, EH&S – SEO Transportation Manager, Facilities Property Manager, OCFO – Property Management			
Principal Investigator, TBD				
	Representative, Berkeley Site Office			
	Waste Management Group Leader or designee, EH&S			

The CSAC will conduct an annual assessment of the established protocol and activities during the fourth quarter of the fiscal year and will be scheduled by Procurement. Based on best practices and research needs, the protocol will be updated. The completed revised protocol will be forwarded to the CSAC chair for approval.



Appendix A: Schedules of Controlled Substances

CITE- 21 USC Sec. 812 01/22/02

-EXPCITE- TITLE 21 - FOOD AND DRUGS CHAPTER 13 - DRUG ABUSE PREVENTION AND CONTROL SUBCHAPTER I - CONTROL AND ENFORCEMENT Part B - Authority To Control; Standards and Schedules

-HEAD-Sec. 812. Schedules of controlled substances

-STATUTE-

(a) Establishment There are established five schedules of controlled substances, to be known as schedules I, II, III, IV, and V. Such schedules shall initially consist of the substances listed in this section. The schedules established by this section shall be updated and republished on a semiannual basis during the two-year period beginning one year after October 27, 1970, and shall be updated and republished on an annual basis thereafter.

(b) Placement on schedules; findings required Except where control is required by United States obligations under an international treaty, convention, or protocol, in effect on October 27, 1970, and except in the case of an immediate precursor, a drug or other substance may not be placed in any schedule unless the findings required for such schedule are made with respect to such drug or other substance. The findings required for each of the schedules are as follows:

(1) Schedule I. -

(A) The drug or other substance has a high potential for abuse.

(B) The drug or other substance has no currently accepted medical use in treatment in the United States.

(C) There is a lack of accepted safety for use of the drug or other substance under medical supervision.

(2) Schedule II. -

(A) The drug or other substance has a high potential for abuse.

(B) The drug or other substance has a currently accepted medical use in treatment in the United States or a currently accepted medical use with severe restrictions.



(C) Abuse of the drug or other substances may lead to severe psychological or physical dependence.

(3) Schedule III. -

(A) The drug or other substance has a potential for abuse less than the drugs or other substances in schedules I and II.

(B) The drug or other substance has a currently accepted medical use in treatment in the United States.

(C) Abuse of the drug or other substance may lead to moderate or low physical dependence or high psychological dependence.

(4) Schedule IV. -

(A) The drug or other substance has a low potential for abuse relative to the drugs or other substances in schedule III.

(B) The drug or other substance has a currently accepted medical use in treatment in the United States.

(C) Abuse of the drug or other substance may lead to limited physical dependence or psychological dependence relative to the drugs or other substances in schedule III.

(5) Schedule V. -

(A) The drug or other substance has a low potential for abuse relative to the drugs or other substances in schedule IV.

(B) The drug or other substance has a currently accepted medical use in treatment in the United States.

(C) Abuse of the drug or other substance may lead to limited physical dependence or psychological dependence relative to the drugs or other substances in schedule IV.

(c) Initial schedules of controlled substances Schedules I, II, III, IV, and V shall, unless and until amended (FOOTNOTE 1) pursuant to section <u>811</u> of this title, consist of the following drugs or other substances, by whatever official name, common or usual name, chemical name, or brand name designated: (FOOTNOTE 1) Revised schedules are published in the Code of Federal Regulations, Part 1308 of Title 21, Food and Drugs.



SCHEDULE I

(a) Unless specifically excepted or unless listed in another schedule, any of the following opiates, including their isomers, esters, ethers, salts, and salts of isomers, esters, and ethers, whenever the existence of such isomers, esters, ethers, and salts is possible within the specific chemical designation:

- (1) Acetylmethadol.
- (2) Allylprodine.
- (3) Alphacetylmathadol. (FOOTNOTE 2)
- (FOOTNOTE 2) So in original. Probably should be "Alphacetylmethadol."
- (4) Alphameprodine.
- (5) Alphamethadol.
- (6) Benzethidine.
- (7) Betacetylmethadol.
- (8) Betameprodine.
- (9) Betamethadol.
- (10) Betaprodine.
- (11) Clonitazene.
- (12) Dextromoramide.
- (13) Dextrorphan.
- (14) Diampromide.
- (15) Diethylthiambutene.
- (16) Dimenoxadol.
- (17) Dimepheptanol.
- (18) Dimethylthiambutene.
- (19) Dioxaphetyl butyrate.



- (20) Dipipanone.
- (21) Ethylmethylthiambutene.
- (22) Etonitazene.
- (23) Etoxeridine.
- (24) Furethidine.
- (25) Hydroxypethidine.
- (26) Ketobemidone.
- (27) Levomoramide.
- (28) Levophenacylmorphan.
- (29) Morpheridine.
- (30) Noracymethadol.
- (31) Norlevorphanol.
- (32) Normethadone.
- (33) Norpipanone.
- (34) Phenadoxone.
- (35) Phenampromide.
- (36) Phenomorphan.
- (37) Phenoperidine.
- (38) Piritramide.
- (39) Propheptazine.
- (40) Properidine.
- (41) Racemoramide.
- (42) Trimeperidine.



(b) Unless specifically excepted or unless listed in another schedule, any of the following opium derivatives, heir salts, isomers, and salts of isomers whenever the existence of such salts, isomers, and salts of isomers is possible within the specific chemical designation:

- (1) Acetorphine.
- (2) Acetyldihydrocodeine.
- (3) Benzylmorphine.
- (4) Codeine methylbromide.
- (5) Codeine-N-Oxide.
- (6) Cyprenorphine.
- (7) Desomorphine.
- (8) Dihydromorphine.
- (9) Etorphine.
- (10) Heroin.
- (11) Hydromorphinol.
- (12) Methyldesorphine.
- (13) Methylhydromorphine.
- (14) Morphine methylbromide.
- (15) Morphine methylsulfonate.
- (16) Morphine-N-Oxide.
- (17) Myrophine.
- (18) Nicocodeine.
- (19) Nicomorphine.
- (20) Normorphine.
- (21) Pholcodine.
- (22) Thebacon.



(c) Unless specifically excepted or unless listed in another schedule, any material, compound, mixture, or preparation, which contains any quantity of the following hallucinogenic substances, or which contains any of their salts, isomers, and salts of isomers whenever the existence of such salts, isomers, and salts of isomers is possible within the specific chemical designation:

- (1) 3,4-methylenedioxy amphetamine.
- (2) 5-methoxy-3,4-methylenedioxy amphetamine.
- (3) 3,4,5-trimethoxy amphetamine.
- (4) Bufotenine.
- (5) Diethyltryptamine.
- (6) Dimethyltryptamine.
- (7) 4-methyl-2,5-diamethoxyamphetamine.
- (8) Ibogaine.
- (9) Lysergic acid diethylamide.
- (10) Marihuana.
- (11) Mescaline.
- (12) Peyote.
- (13) N-ethyl-3-piperidyl benzilate.
- (14) N-methyl-3-piperidyl benzilate.
- (15) Psilocybin.
- (16) Psilocyn.
- (17) Tetrahydrocannabinols.



SCHEDULE II

(a) Unless specifically excepted or unless listed in another schedule, any of the following substances whether produced directly or indirectly by extraction from substances of vegetable origin, or independently by means of chemical synthesis, or by a combination of extraction and chemical synthesis:

(1) Opium and opiate, and any salt, compound, derivative, or preparation of opium or opiate.

(2) Any salt, compound, derivative, or preparation thereof which is chemically equivalent or identical with any of the substances referred to in clause (1), except that these substances shall not include the isoquinoline alkaloids of opium.

(3) Opium poppy and poppy straw.

(4) coca (FOOTNOTE 3) leaves, except coca leaves and extracts of coca leaves from which cocaine, ecgonine, and derivatives of ecgonine or their salts have been removed; cocaine, its salts, optical and geometric isomers, and salts of isomers; ecgonine, its derivatives, their salts, isomers, and salts of isomers; or any compound, mixture, or preparation which contains any quantity of any of the substances referred to in this paragraph.

(FOOTNOTE 3) So in original. Probably should be capitalized.

(b) Unless specifically excepted or unless listed in another schedule, any of the following opiates, including their isomers, esters, ethers, salts, and salts of isomers, esters and ethers, whenever the existence of such isomers, esters, ethers, and salts is possible within the specific chemical designation:

- (1) Alphaprodine.
- (2) Anileridine.
- (3) Bezitramide.
- (4) Dihydrocodeine.
- (5) Diphenoxylate.
- (6) Fentanyl.
- (7) Isomethadone.
- (8) Levomethorphan.
- (9) Levorphanol.



- (10) Metazocine.
- (11) Methadone.

(12) Methadone-Intermediate, 4-cyano-2-dimethylamino-4,4-diphenyl butane.

(13) Moramide-Intermediate, 2-methyl-3-morpholino-1, 1-diphenylpropane-carboxylic acid.

- (14) Pethidine.
- (15) Pethidine-Intermediate-A, 4-cyano-1-methyl-4-phenylpiperidine.
- (16) Pethidine-Intermediate-B, ethyl-4-phenylpiperidine-4-carboxylate.
- (17) Pethidine-Intermediate-C, 1-methyl-4-phenylpiperidine-4-carboxylic acid.
- (18) Phenazocine.
- (19) Piminodine.
- (20) Racemethorphan.
- (21) Racemorphan.

(c) Unless specifically excepted or unless listed in another schedule, any injectable liquid which contains any quantity of methamphetamine, including its salts, isomers, and salts of isomers.



SCHEDULE III

(a) Unless specifically excepted or unless listed in another schedule, any material, compound, mixture, or preparation which contains any quantity of the following substances having a stimulant effect on the central nervous system:

- (1) Amphetamine, its salts, optical isomers, and salts of its optical isomers.
- (2) Phenmetrazine and its salts.

(3) Any substance (except an injectable liquid) which contains any quantity of methamphetamine, including its salts, isomers, and salts of isomers.

(4) Methylphenidate.

(b) Unless specifically excepted or unless listed in another schedule, any material, compound, mixture, or preparation which contains any quantity of the following substances having a depressant effect on the central nervous system:

(1) Any substance which contains any quantity of a derivative of barbituric acid, or any salt of a derivative of barbituric acid.

- (2) Chorhexadol.
- (3) Glutethimide.
- (4) Lysergic acid.
- (5) Lysergic acid amide.
- (6) Methyprylon.
- (7) Phencyclidine.
- (8) Sulfondiethylmethane.
- (9) Sulfonethylmethane.
- (10) Sulfonmethane.
- (c) Nalorphine.

(d) Unless specifically excepted or unless listed in another schedule, any material, compound, mixture, or preparation containing limited quantities of any of the following narcotic drugs, or any salts thereof:



(1) Not more than 1.8 grams of codeine per 100 milliliters or not more than 90 milligrams per dosage unit, with an equal or greater quantity of an isoquinoline alkaloid of opium.

(2) Not more than 1.8 grams of codeine per 100 milliliters or not more than 90 milligrams per dosage unit, with one or more active, non-narcotic ingredients in recognized therapeutic amounts.

(3) Not more than 300 milligrams of dihydrocodeinone per 100 milliliters or not more than 15 milligrams per dosage unit, with a fourfold or greater quantity of an isoquinoline alkaloid of opium.

(4) Not more than 300 milligrams of dihydrocodeinone per 100 milliliters or not more than 15 milligrams per dosage unit, with one or more active, nonnarcotic ingredients in recognized therapeutic amounts.

(5) Not more than 1.8 grams of dihydrocodeine per 100 milliliters or not more than 90 milligrams per dosage unit, with one or more active, nonnarcotic ingredients in recognized therapeutic amounts.

(6) Not more than 300 milligrams of ethylmorphine per 100 milliliters or not more than 15 milligrams per dosage unit, with one or more active, nonnarcotic ingredients in recognized therapeutic amounts.

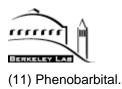
(7) Not more than 500 milligrams of opium per 100 milliliters or per 100 grams, or not more than 25 milligrams per dosage unit, with one or more active, nonnarcotic ingredients in recognized therapeutic amounts.

(8) Not more than 50 milligrams of morphine per 100 milliliters or per 100 grams with one or more active, nonnarcotic ingredients in recognized therapeutic amounts.

(e) Anabolic steroids.

SCHEDULE IV

- (1) Barbital.
- (2) Chloral betaine.
- (3) Chloral hydrate.
- (4) Ethchlorvynol.
- (5) Ethinamate.
- (6) Methohexital.
- (7) Meprobamate.
- (8) Methylphenobarbital.
- (9) Paraldehyde.
- (10) Petrichloral.



SCHEDULE V

Any compound, mixture, or preparation containing any of the following limited quantities of narcotic drugs, which shall include one or more nonnarcotic active medicinal ingredients in sufficient proportion to confer upon the compound, mixture, or preparation valuable medicinal qualities other than those possessed by the narcotic drug alone:

(1) Not more than 200 milligrams of codeine per 100 milliliters or per 100 grams.

(2) Not more than 100 milligrams of dihydrocodeine per 100 milliliters or per 100 grams.

(3) Not more than 100 milligrams of ethylmorphine per 100 milliliters or per 100 grams.

(4) Not more than 2.5 milligrams of diphenoxylate and not less than 25 micrograms of atropine sulfate per dosage unit.

(5) Not more than 100 milligrams of opium per 100 milliliters or per 100 grams.

-SOURCE-

(Pub. L. 91-513, title II, Sec. 202, Oct. 27, 1970, 84 Stat. 1247; Pub. L. 95-633, title I, Sec. 103, Nov. 10, 1978, 92 Stat. 3772; Pub. L. 98-473, title II, Sec. 507(c), 509(b), Oct. 12, 1984, 98 Stat. 2071, 2072; Pub. L. 99-570, title I, Sec. 1867, Oct. 27, 1986, 100 Stat. 3207-55; Pub. L. 99-646, Sec. 84, Nov. 10, 1986, 100 Stat. 3619; Pub. L. 101-647, title XIX, Sec. 1902(a), Nov. 29, 1990, 104 Stat. 4851.)

-MISC1-

AMENDMENTS

1990 - Subsec. (c). Pub. L. 101-647 added item (e) at end of schedule III.

1986 - Subsec. (c). Pub. L. 99-646 amended schedule II(a)(4) generally. Prior to amendment, schedule II(a)(4) read as follows: "Coca leaves (except coca leaves and extracts of coca leaves from which cocaine, ecgonine, and derivatives of ecgonine or their salts have been removed); cocaine, its salts, optical and geometric isomers, and salts of isomers; and ecgonine, its derivatives, their salts, isomers, and salts of isomers."

Pub. L. 99-570 amended schedule II(a)(4) generally. Prior to amendment, schedule II(a)(4) read as follows: "Coca leaves and any salt, compound, derivative, or preparation of coca leaves (including cocaine and ecgonine and their salts, isomers, derivatives, and salts of isomers and derivatives), and any salt, compound, derivative, or preparation thereof which is chemically equivalent or identical with any of these substances, except that the substances shall not include decocainized coca leaves or extraction of coca leaves, which extractions do not contain cocaine or ecgonine." 1984 - Subsec. (c). Pub. L. 98-473, Sec. 507(c), in schedule II(a)(4) added applicability to cocaine and ecgonine and their salts, isomers, etc.



Subsec. (d). Pub. L. 98-473, Sec. 509(b), struck out subsec. (d) which related to authority of Attorney General to except stimulants or depressants containing active medicinal ingredients. 1978 - Subsec. (d)(3). Pub. L. 95-633 added cl. (3).

EFFECTIVE DATE OF 1990 AMENDMENT

Amendment by Pub. L. 101-647 effective 90 days after Nov. 29, 1990, see section 1902(d) of Pub. L. 101-647, set out as a note under section <u>802</u> of this title.

EFFECTIVE DATE OF 1978 AMENDMENT

Amendment by Pub. L. 95-633 effective on date the Convention on Psychotropic Substances enters into force in the United States (July 15, 1980), see section 112 of Pub. L. 95-633, set out as an Effective Date note under section <u>801a</u> of this title.

CONGRESSIONAL FINDING; EMERGENCY SCHEDULING OF GHB IN CONTROLLED SUBSTANCES ACT

Pub. L. 106-172, Sec. 2, 3(a), Feb. 18, 2000, 114 Stat. 7, 8, provided that:

"SEC. 2. FINDINGS.

"Congress finds as follows:

"(1) Gamma hydroxybutyric acid (also called G, Liquid X, Liquid Ecstasy, Grievous Bodily Harm, Georgia Home Boy, Scoop) has become a significant and growing problem in law enforcement. At least 20 States have scheduled such drug in their drug laws and law enforcement officials have been experiencing an increased presence of the drug in driving under the influence, sexual assault, and overdose cases especially at night clubs and parties.

"(2) A behavioral depressant and a hypnotic, gamma hydroxybutyric acid ('GHB') is being used in conjunction with alcohol and other drugs with detrimental effects in an increasing number of cases. It is difficult to isolate the impact of such drug's ingestion since it is so typically taken with an ever-changing array of other drugs and especially alcohol which potentiates its impact.

"(3) GHB takes the same path as alcohol, processes via alcohol dehydrogenase, and its symptoms at high levels of intake and as impact builds are comparable to alcohol ingestion/intoxication. Thus, aggression and violence can be expected in some individuals who use such drug.

"(4) If taken for human consumption, common industrial chemicals such as gamma butyrolactone and 1.4-butanediol are swiftly converted by the body into GHB. Illicit use of these and other GHB analogues and precursor chemicals is a significant and growing law enforcement problem.

"(5) A human pharmaceutical formulation of gamma hydroxybutyric acid is being developed as a treatment for cataplexy, a serious and debilitating disease. Cataplexy, which causes sudden and total loss of muscle control, affects about 65 percent of the estimated 180,000 Americans with narcolepsy, a sleep disorder. People with cataplexy often are unable to work, drive a car, hold their children or live a normal life.

'(6) Abuse of illicit GHB is an imminent hazard to public safety that requires immediate regulatory action under the Controlled Substances Act (21 U.S.C. <u>801</u> et seq.).



"SEC. 3. EMERGENCY SCHEDULING OF GAMMA HYDROXYBUTYRIC ACID AND LISTING OF GAMMA BUTYROLACTONE AS LIST I CHEMICAL.

"(a) Emergency Scheduling of GHB. -

"(1) In general. - The Congress finds that the abuse of illicit gamma hydroxybutyric acid is an imminent hazard to the public safety. Accordingly, the Attorney General, notwithstanding sections 201(a), 201(b), 201(c), and 202 of the Controlled Substances Act (21 U.S.C. <u>811(a)-(c)</u>, <u>812</u>), shall issue, not later than 60 days after the date of the enactment of this Act (Feb. 18, 2000), a final order that sch edules such drug (together with its salts, isomers, and salts of isomers) in the same schedule under section 202(c) of the Controlled Substances Act as would apply to a scheduling of a substance by the Attorney General under section 201(h)(1) of such Act (relating to imminent hazards to the public safety), except as follows:

"(A) For purposes of any requirements that relate to the physical security of registered manufacturers and registered distributors, the final order shall treat such drug, when the drug is manufactured, distributed, or possessed in accordance with an exemption under section 505(i) of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 355(i)) (whether the exemption involved is authorized before, on, or after the date of the enactment of this Act (Feb. 18, 2000)), as being in the same schedule as that recommended by the Secretary of Health and Human Services for the drug when the drug is the subject of an authorized investigational new drug application (relating to such section 505(i)). The recommendation referred to in the preceding sentence is contained in the first paragraph of the letter transmitted on May 19, 1999, by such Secretary (acting through the Assistant Secretary for Health) to the Attorney General (acting through the Deputy Administrator of the Drug Enforcement Administration), which letter was in response to the letter transmitted by the Attorney General (acting through such Deputy Administrator) on September 16, 1997. In publishing the final order in the Federal Register, the Attorney General shall publish a copy of the letter that was transmitted by the Secretary of Health and Human Services.

"(B) In the case of gamma hydroxybutyric acid that is contained in a drug product for which an application is approved under section 505 of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 355) (whether the application involved is approved before, on, or after the date of the enactment of this Act (Feb. 18, 2000)), the final order shall schedule such drug in the same schedule as that recommended by the Secretary of Health and Human Services for authorized formulations of the drug. The recommendation referred to in the preceding sentence is contained in the last sentence of the fourth paragraph of the letter referred to in subparagraph (A) with respect to May 19, 1999.

"(2) Failure to issue order. - If the final order is not issued within the period specified in paragraph (1), gamma hydroxybutyric acid (together with its salts, isomers, and salts of isomers) is deemed to be scheduled under section 202(c) of the Controlled Substances Act (21 U.S.C. <u>812(c)</u>) in accordance with the policies described in paragraph (1), as if the Attorney General had issued a final order in accordance with such paragraph."

PLACEMENT OF PIPRADROL AND SPA IN SCHEDULE IV TO CARRY OUT OBLIGATION UNDER CONVENTION ON PSYCHOTROPIC SUBSTANCES

Section 102(c) of Pub. L. 95-633 provided that: "For the purpose of carrying out the minimum United States obligations under paragraph 7 of article 2 of the Convention on Psychotropic Substances, signed at Vienna, Austria, on February 21, 1971, with respect to pipradrol and SPA (also known as (-)-1-dimethylamino-1,2-diphenylethane), the Attorney General shall by order, made without regard to sections 201 and 202 of the Controlled Substances Act (this section and



section <u>811</u> of this title), place such drugs in schedule IV of such Act (see subsec. (c) of this section)."

Provision of section 102(c) of Pub. L. 95-633, set out above, effective on the date the Convention on Psychotropic Substances enters into force in the United States (July 15, 1980), see section 112 of Pub. L. 95-633, set out as an Effective Date note under section <u>801a</u> of this title.

-SECREF-

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in sections 384, <u>811</u>, 1115, 1523, 1703 of this title; title 10 section 912a; title 19 section 2484; title 20 sections 1415, 7161; title 29 sections 705, 2006; title 41 section 706; title 42 sections 12111, 12210.



Appendix B: Controlled Substance Advisory Committee

Points of Contact

Contact Name	LBNL Phone
PRIMARY CONTACT	
Howard K. Hatayama or Designee Division Director Environmental, Health & Safety Division (EH&S)	486-4261
ALTERNATE PRIMARY CONTACT	
Dan Lunsford (Primary Contact), Security Manager Genevieve Pastor-Cohen, (Back-up Contact) Program Manager EH&S– Security & Emergency Operations (SEO)	486-6016 486-7033
SECONDARY CONTACTS	
Ed Anderson (Primary Contact) Carol Eaton (Back-up Contact) Controlled Substance Liaison Officer (CSLO) OCFO – Procurement	486-4575 486-5252
William Llewellyn (Primary Contact) Tammy Brown (Back-up Contact) Transportation Manager Facilities	486-7726 486-5232
John Morgan (Primary Contact) Dave McFann (Back-Up Contact) Property Manager OCFO – Property Management	486-5728
Landmark Protection Security Operations Manager EH&S – Security & Emergency Operations	486-7791
Nancy Rothermich (Primary Contact) Waste Management Group Leader EH&S – Waste Management	486-4644
Mary Gross Neil Landau Department of Energy, Berkeley Site Office	486-4373 486-6479



Appendix C: Designated Alternate Signer (Sample Memo)

To: Edward Anderson, Controlled Substance Liaison Officer

From: (PI's Name)

Subject: Designated Alternate Signer for PO# _____

I authorize ______, who is a full-time career employee with Lawrence Berkeley National Laboratory, to sign in my absence for substances ordered under PO# ______ for [name of substance(s) ordered under this Purchase Order].

Should I not be available for receipt of the above order, _______ is authorized to receive and sign for the order and bring it to it destination where it will be placed in a secured area.

Signed:

Principal Investigator

(Date)

Designated Alternate Signer:

Signature

(Date)

Print Name

Employee #



Appendix D: Chain of Custody Form



Location:

Chain of Custody for Schedule I & II Controlled Substances

at LBNL for Scientific Research

Chemical:	Authorized Host:

LBNL PO #:	LBNL Research Project Name:	Destination:
LDINL I O π .		

Name (Print)	Signature	Date	Time	Location

A COPY OF THIS FORM SHALL REMAIN IN THE POSSESSION OF THE RESPONSIBLE INDIVIDUAL CURRENTLY IN POSSESSION OF THE SCHEDULE I OR II CONTROLLED SUBSTANCE.

ORIGINAL TO CONTROLLED SUBSTANCE LIAISON OFFICER

COPIES TO RECEIVING, SECURITY, PROPERTY MANAGEMENT