ATTACHMENT F

TITLE 8 SAFETY ORDERS ASSOCIATED WITH A

SUBSTANTIAL PROBABILITY OF DEATH OR SERIOUS PHYSICAL HARM

A violation of any of the following Title 8 sections is associated with a substantial probability of death or serious physical harm. If a violation of a section listed below is not classified as Serious, compliance personnel shall document in Item 26(c) of the Cal/OSHA 1B the reason(s) why the violation has not been classified as Serious. See Notes to Attachment F for health standards violations.

TITLE 8 SECTION	SUBJECT
1516(a)	Eye and Face Protection
1521	Ear Protection Note 1
1524	Water Supply Note 2
1526	Toilets at Construction Jobsites Note 2
1527	Washing Facilities, Food Handling & Temporary Sleeping Quarters Note 2
1528	General (Dust, Fumes, Mists, Vapors and Gases) Note 3
1529	Asbestos Notes 4, 5 and 10
1530	General Requirements of Mechanical Ventilation Note 3
1531	Respiratory Protective Equipment See 5144
1532	Cadmium Notes 4, 5 and 10
1532.1	Lead Notes 6, 8 and 10
1533	Internal Combustion Engines Note 1534 Flammable Vapors Note 11
1535	Methylenedianiline Notes 4, 5 and 10
1536	Ventilation Requirements for Welding, Brazing & Cutting Note 3
1537	Welding, Cutting and Heating of Coated Metals Note 3
1541(d)	Exposure to Vehicular Traffic, see also 1598(c)
1541(e)	Exposure to Falling Loads, see also 5002
1541 (i)(1), (2) & (3)	Stability Endangered by Excavation
1541 (j)(2)	Protection from Excavated Materials

	Cave-in Condition (when it can be documented that condition had
1541 (k)(2)	previously existed)
1541(I)(1)	Fall Protection
1541.1(d)(2)	Materials and Equipment for Protective Systems
1541.1(e)(1)(B)) Support System, Install/Remove
1541.1(g)(1)(C) Shield Systems, Exit/Enter
1542(a)(1)	Protective Systems for Shafts
1592(a) & (b)	Back-up Alarm
1596(a)(1)	ROPS/Seat Belts
1598(a) & (c)	Traffic Control/Streets and Highways
1621(a)	Guardrails (if fall is from 10 feet or higher)
1626(b)	Stairwells and Stairs (if fall is from 10 feet or higher)
1626(e)	Stair Railings (if fall is from 10 feet or higher)
1632(b)	Floor Openings
1632(c)	Ladderway Floor Openings/Platforms
1632(i)	Floor Holes
1632(k)(1	Wall Openings
1640(b)(1)	Pole Scaffolds, Uprights
1640(b)(2)	Pole Scaffolds, Ledgers and Ribbons
1640(b)(3)	Pole Scaffolds, Ties and Braces
1640(b)(4)	Pole Scaffolds, Railings (if fall is from 10 feet or higher)
1640(b)(5)	Pole Scaffolds, Platforms
1640(c*)(1)	Pole Scaffolds, Loading
1640(c*)(2)	Pole Scaffolds, Uprights
1640(c*)(3)	Pole Scaffolds, Ledgers and Ribbons
1640 (c*)(4)	Pole Scaffolds, Diagonal Braces
1640(c*)(5)	Pole Scaffolds, Railings (if fall is from 10 feet or higher)
	*The (C) in Section 1640 (b)(5)(C) is most likely a misprintit
	should read 1640 (c).
1644(a)(2)	Metal Scaffolds, Structurally Weakened
1644(a)(3)	Metal Scaffolds, Base Plates
1644(a)(4	Metal Scaffolds, Planks on Rails
1644(a)(5)	Metal Scaffolds, Ties
1644(a)(6)	Metal Scaffolds, Railings (if fall is from 10 feet or higher)
1644(a)(7)	Metal Scaffolds, Platforms
1670(a)	Safety Belts and Lanyards
1670(c)	Secure Lanyard, see also 3210(a)
1675(j)	Ladders in Use
1712(c)(1) & (2)	Impalement

1740(b)	Cylinders, Storage and Use (serious if acetylene cylinder is lying down)
1740(c)	Cylinders, Storage and Use (serious if valve is unprotected and cylinder is not restrained)
2340.17(a)	Guarding of Energized Parts (if 220 volts or greater)
2340.17(a)(1)	Vaults/Enclosures (if unlocked enclosures 220 volts or greater)
2340.22(a)	&#Identify Disconnecting Means</td></tr><tr><td>2340.26</td><td>Mechanical Protection (if 220 volts or greater)</td></tr><tr><td>2395.51(a)(1)</td><td>Effective Grounding (if 220 volts or greater)</td></tr><tr><td>2510.56(a)</td><td>Receptacles, Cord Connectors, and Attachment Plugs (if 220 volts or greater)</td></tr><tr><td>2510.58(a)</td><td>Grounding Poles (if 220 volts or greater)</td></tr><tr><td>2510.58(b)</td><td>Grounding Pole Connection (if 220 volts or greater)</td></tr><tr><td>3210(a)</td><td>Guardrails (if fall is from 10 feet or higher)</td></tr><tr><td>3212(a)(1)</td><td>Floor Openings, Floor Holes and Roofs</td></tr><tr><td>3214(a)</td><td>Stair Rails and Hand Rails (if fall is from 10 feet or higher)</td></tr><tr><td>3314(a), (b) &</td><td>Lockout Blockout</td></tr><tr><td>(c)</td><td>Lockout Blockout</td></tr><tr><td>3326(d)</td><td>Tire Changing Restraining Device</td></tr><tr><td>3362</td><td>Sanitation, General Requirements (all subsections, but not serious if sanitation conditions do not contribute to an employee exposure to a substance or agent which can result in a serious adverse health effect)</td></tr><tr><td>3363</td><td>Water Supply (all subsections, but not serious if water supply conditions do not contribute to an employee exposure to a substance or agent which can result in a serious adverse health effect)</td></tr><tr><td>3366</td><td>Washing Facilities (all subsections, but not serious if washing facilities conditions do not contribute to an employee exposure to a substance or agent which can result in a serious adverse health effect)</td></tr><tr><td>3382(a)</td><td>Eye and Face Protection, see also 1516(a)</td></tr><tr><td>3384(a) & (b)</td><td>Foot Protection</td></tr><tr><td>3385(a), (b) & (c)</td><td>Foot Protection</td></tr><tr><td>3577(b)</td><td>Protection Hoods</td></tr><tr><td>3657(a)(2) &</td><td>Elevating Employees with Lift Trucks (if fall is from 10 feet or</td></tr><tr><td>(3)</td><td>higher)</td></tr><tr><td>3999(a)</td><td>Screw Conveyors</td></tr><tr><td>3999(b)</td><td>Belt Conveyers</td></tr><tr><td>4050(a)</td><td>Shafts, Collars, Clutches, Couplings</td></tr><tr><td></td><td></td></tr></tbody></table>

4070(a)	Belt and Pulley Drives
4075(a)	Gears and Sprockets
4185	Foot-Operated Devices
4307(b), (b)(1) & (c)	Portable Circular Saws
4309(b) and (d)	Radial Arm Saw
4310(a)(1)	Band Knives and Band Saw
4650(f) and (h	Storage Handling and Use of Cylinders
4845(b)	Back Flow Prevention
4853	Inert-Gas Metal-Arc Welding Note 3
5002	Overhead Loads
5031(a) and (c)	Crane/Derrick Inspection
5096	Exposure Limits for Noise Notes 1 and 10
5097	Hearing Conservation Program Notes 10, 12 and 13
5098	Hearing Protectors Notes 7 and 12
5099	Training Program Note 12
5110	See P&P C-13
5141	Control of Harmful Exposures Notes 1 and 3
5143	Mechanical Ventilation Systems Notes 1 and 3
5144	Respiratory Protective Equipment Notes 3, 6 and 7
5145	Media/Allaying Dusts, Fumes, Mists, Vapors and GasesNote 3
5146	Internal Combustion Engine Exhaust Emission Control
5149	Oxygen Deficiency Always serious
5150	Vent/PPE Req/Welding, Brazing and CuttingNote 3
5151	Vent/PPE Req/Abrasive Blast Oper/EnclosuresNotes 3, 11 and 14
5152	Vent/PPE Req/Grinding, Polishing and Buffing OperationsNote 3
5153	Vent/PPE Req/Spray-Coating Operations Note 3
5154	Vent/PPE Req/Open-Surface Tank Operations Note 3
5154.1	Ventilation Reg/Lab-Type Hood Operations Notes 3, 14 and 15
5155	Airborne Contaminants (c)(d) & (e) Notes 3 and 16
5157	Permit-Required Confined Space Notes 6, 16 and 17
5158	Other Confined Space Operations Notes 6, 16 and 17
5162	Emerg Eyewash and Shower Equipment Notes 18, 19 and 20
5164	Storage of Hazardous Substances Note 21
5185(l)	Changing and Charging Storage Batteries
5189 (d)(2)	Process Safety Information - Note 23
J109 (u)(2)	1 100000 bately information 110to 25

5189 (e)(1)	Process Hazard Analysis - Note 23
5189 (e)(2)(A),	Process Hazard Analysis - Note 23
(B), (C), (E)	·
5189 (e)(2)(F)	Process Hazard Analysis - Note 24
5189 (f)(1)	Operating Procedures - Notes 23 and 25
5189 (j)(2)(A), (B)	Mechanical Integrity, Inspection and Testing - Note 26
5189 (j)(3)	Mechanical Integrity, Equipment Deficiencies - Note 26
5189 (j)(4)(C)	Mechanical Integrity, Quality Assurance - Note 27
5189 (l)(1)	Management of Change - Note 28
5192	Hazardous Waste Operations/Emergency Resp Notes 3 and 6
5193	Bloodborne Pathogens Notes 6 and 10
5194	Hazard Communication-Notes 3, 6 and 9
5196	Sulfur Note 1
5200	Methylenedianiline Notes 4, 5 and 10
5207	Cadmium Notes 4, 5 and 10
5208	Asbestos Notes 4, 5 and 10
5209	Carcinogens (various) Notes 4, 5 and 10
5210	Vinyl Chloride Notes 4, 5 and 10
5211	Coke oven emissions Notes 4, 5 and 10
5212	1,2 dibromo-3 chloropropane (DBCP) Notes 4, 5 and 10
5213	Acrylonitrile Notes 4, 5 and 10
5214	Inorganic arsenic Notes 4/5&10;note exemption for "utilization"
5215	4,4'- Methylene bis (2-chloroaniline) Notes 4, 5 and 10
5216	Lead Notes 6, 8 and 10
5217	Formaldehyde Notes 4, 5 and 10
5218	Benzene Notes 4, 5 and 10
5219	Ethylene Dibromide (EDB) Notes 4 and 5
5220	Ethylene Oxide Notes 4, 5 and 10
5221	Fumigation Note 1
5222	Fumigation/Vaults and Chambers Note 1
5223	Fumigation/build/rooms other than vault & chambers Note 1
5416	Flammable vapors Note 11

NOTES

The following notes describe circumstances or situations in which the specified Title 8 sections in Attachment F may not be associated with a substantial probability of death or serious physical harm.

Note 1:

Not Serious, if exposure exceeds the PEL, provided effective personal protective equipment and all feasible engineering or administrative controls are being used.

Note 2:

Not serious, if the conditions do not contribute to an employee exposure to a substance or agent which can result in a serious adverse health effect.

Note 3:

Not serious, if the exposure exceeds the PEL, STEL or Ceiling values, provided the substance involved does not have a Health Effects Code (HEC) of 14 or less or an HEC of 17 or 18 as listed in Note 22.

Note 4:

All violations related to the "Use" of a carcinogen, regardless of the exposure level, shall be classified as serious, unless it is determined that the violation was minor and would not result in a substantial health hazard.

Note 5:

"Other than use" violations of a carcinogen regulation shall be classified as serious when the PEL, Excursion, and Action Level or Ceiling value is exceeded, or if it is determined that the violation could contribute to an exposure above the PEL, Excursion, and Action Level or Ceiling value.

Note 6:

Not serious, if the employer does not have a written program or plan available at the time of the inspection and there is substantial evidence the employer has implemented an effective program or plan and that the lack of such a written program or plan does not directly contribute to a serious exposure risk.

Note 7:

Not serious, if equipment is improperly stored, provided that the equipment is not contaminated by a substance which has a Health Effects Code (HEC) of 14 or less as listed in Note 22.

Note 8:

Not serious, if the exposure is equal to or greater than the Action Level, but less than the PEL provided there are no high blood levels.

Note 9:

For mixtures of diluted substances, the MSDS toxicity information may be used to establish a serious health violation.

Note 10:

Violations related to access to exposure and medical records, observation of monitoring, recordkeeping, notification of work or registration posting requirements shall be classified as "Regulatory" violations.

Note 11:

Not serious, if the measured airborne concentration does not exceed 25 percent of the lower explosive limits (LEL).

Note 12:

Not Serious, if exposure is at or Above Action Level, but less than the PEL.

Note 13:

Not serious, if the violations are directly attributable to a contracted audiometric service.

Note 14:

Not Serious, if concentration within the duct system does not exceed 20 percent of the lower explosive limits (LEL).

Note 15:

Violations related to the use of perchloric acid shall always be cited as serious.

Note 16:

8 CCR Section 5155(e)(1) shall not be cited unless documentation exists to support the citation, e.g., sampling results. The employer's sampling data shall not be acceptable, unless the data is representative of actual working conditions and was obtained using a validated method by a person qualified, pursuant to the requirements of 8 CCR Section 5155(e)(3), to obtain and evaluate the data.

Note 17:

Not serious, but only if (1) side or bottom openings are used to enter a confined space; (2) all required air monitoring, personal protective and rescue equipment are available and in use; (3) only trained personnel are engaged in the entry activity, and (4) the only hazard within the space is related to airborne chemical contamination.

Note 18:

Not serious, if there is a substantial probability that a serious exposure does not exist because of the small quantities handled and the lack of a splash hazard, irrespective of the use of PPE.

Note 19:

Violations of the monthly testing of equipment requirements should be classified as "General," unless such testing could have detected an existing non-functional equipment.

Note 20:

No citation shall be issued, unless there is adequate evidence to document that the hazardous substance for which the device is being required meets the criteria for causing the injuries, and/or causes toxic effects by absorption as specified in the regulation.

Note 21:

Not serious, if the reaction of incompatible materials would not lead to serious exposure, including fire and explosion, because of the quantities stored, properties of the substances or the location of the storage.

Note 22: HEALTH EFFECTS CODES

CODE	HEALTH EFFECTS
<u>HE1</u> <u>HE2</u>	CancerCurrently regulated by OSHA as carcinogen Chronic (Cumulative) ToxicityKnown or Suspected animal or human carcinogen, mutagen (except Code HE1 chemicals)
HE3	Chronic (Cumulative) ToxicityLong-term organ toxicity other than nervous, respiratory, hematologic or reproductive
<u>HE4</u> <u>HE5</u>	Acute ToxicityShort-term high risk effects Reproductive HazardsTeratogenesis or other reproductive impairment
HE6 HE7 HE8	Nervous System DisturbancesCholinesterase inhibition Nervous System DisturbancesNervous system effects other than narcosis Nervous System DisturbancesNarcosis
HE9	Respiratory Effects Other Than IrritationRespiratory sensitization (asthma or other)
<u>HE10</u> <u>HE11</u>	Respiratory Effects Other Than IrritationCumulative lung damage Respiratory EffectsAcute lung damage/edema or other
HE12 HE13	Hematologic (Blood) DisturbancesAnemias Hematologic (Blood) DisturbancesMethemoglobinemia
HE14 HE15 HE16	Irritation-Eyes, Nose, Throat, SkinMarked Irritation-Eyes, Nose, Throat, SkinModerate Irritation-Eyes, Nose, Throat, SkinMild
HE17 HE18	Asphyxiants, Anoxiants Explosive, Flammable, Safety (No adverse effects encountered when good housekeeping practices are followed
HE19 HE20	Generally Low Risk Health EffectsNuisance particulates, vapors or gases Generally Low Risk Health EffectsOdor

Note 23:

Serious violation if information not provided to employees or the program is not implemented.

Note 24:

Not serious if addressed in subsections (d) or (j).

Note: 25:

Serious if not referenced anywhere in employer's PSM program.

Note 26:

Serious if inspection would identify failed or faulty equipment whose failure would lead to a serious exposure, serious injury or death.

Note 27:

Serious if maintenance materials, spare parts or equipment do not meet manufacturer's specifications or applicable codes such as: ANSI, ASME, API, etc.

Note 28:

Serious violation if changes actually made and Management of Change program not implemented. Failure to address a change to equipment, process, chemicals, etc. did not inform and train employees involved with the process of the impact of the change, prior to start-up.

P&PC-1B, Attachment F (8/13/04)