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To: ✓ Official Members, LIA
 ✓ LIA Environmental Health Committee
 ✓ LIA Litigation Sub-Committee on OSHA Lead Standard

From: L. G. Piantanida

SUBJECT: OSHA LEAD STANDARD SUMMARY

Attached is a summary of the current requirements for the OSHA Lead Standard. It indicates how each section of the Standard is affected by the Court Stay and the revised compliance dates.

Details of the Stay will be discussed at the forthcoming LIA Environmental Health Committee meeting, March 22, in New Orleans.

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✓ c.c. ILZRO Lead Environmental Health Committee

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OSHA LEAD STANDARD SUMMARY

PEL (permissible exposure limit) - airborne lead concentration of 30 ug/m³, 8-hr average

AL (action level) - airborne lead concentration of 30 ug/m³, 8-hr average

ED (effective date) - March 1, 1979; date following which implementation of provisions of the Standard must begin, unless affected by Court Stay

<u>SECTION</u>	<u>STATUS OF STAY</u>	<u>REQUIREMENT</u>	<u>EXPLANATION</u>	<u>COMPLIANCE SCHEDULE</u>
(c)	stay denied except re (f) - see below	no employee exposure > PEL	respirators can be used to meet PEL, based on Table II (f)(2)(i), (including dust, mist, & fume resp), except as (f) is affected by stay	As soon as possible (ASAP)
(d)(2-3)	stay denied	initial determination of PbA	-air monitoring of representative sample of employees believed to be exposed to greatest PbA conc to determine if exposed to PbA > AL or PEL -must be done for each type of employee exposure w/i each operation over a full shift (at least 7 hrs) -must be made w/i 30 days of ED & results obtained w/i 90 days of ED -must notify employee in writing of results w/i 5 working days of receiving results	ASAP but no later than 30 days from ED
(d)(4)	stay denied	exposure (PbA) monitoring	-if initial determination is > AL -must be representative for each employee exposed to PbA > AL -may use measurements made w/i the last year, is sampling & analyt methods equivalent to requirements of Standard -notify employees in writing of results w/i 5 working days of receiving them -if PbA > PEL, must notify employee of corrective action taken or to be taken to reduce PbA < PEL -must be completed no later than 90 days from ED	ASAP, but completed no later than 90 days from ED
(e)(1)	stay granted	methods of compliance	-current standard of 200 ug/m ³ is in effect during the stay period, instead of schedule in Table I -engineering controls must be used to meet 200 ug/m ³ -requirements for add'l eng'g controls and work practices to meet interim & PEL limits are deferred pending outcome of challenge to Standard	ED (for compliance with 200 ug/m ³)

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<u>SECTION</u>	<u>STATUS OF STAY</u>	<u>REQUIREMENT</u>	<u>EXPLANATION</u>	<u>COMPLIANCE SCHEDULE</u>
(e)(2)	stay denied except re (f)-see below	respiratory protection	-to reduce exposure to or below 50 ug/m ³ -use of dust, fume, & mist resp permitted for conc of PbA ≤ 500 ug/m ³ -qualitative fit testing required; quantitative fit test'g postponed for 1 yr from ED	see (f) below
(e)(3)	stay granted except for (e)(3)(F)	compliance program	-requirements for written compl prog to reduce PbA PEL or interim level are stayed -paragraph (F) is <u>not</u> stayed & requires work practices program including items in (g), (h), & (i) - see below	30 days from ED
(e)(4)	stay granted	bypass of interim level (100 ug/m ³)	current 200 ug/m ³ standard is in effect until outcome of Court challenge is determined	Not Applicable (NA)
(e)(5)	stay granted	mechanical ventilation	-effectiveness testing schedule is stayed -exhaust air may not be recirculated into the workplace	NA
(e)(6)	stay granted	administrative controls	-if rotating employees, it is not necessary to implement a job rotation schedule as described in the Standard	NA
(f)(2)	stay denied except for (f)(2)(ii)	respiratory protection & selection	-must provide & assure use of respirators according to Table II -during stay, powered air-purifying resp shall be supplied in lieu of resp specified in Table when such resp is inadequate due to physical characteristics of employee (2)(ii)	ED if expos ₃ ≥ 200 ug/m ³ 150 days from ED if expos > PEL but < 200 ug/m ³
(f)(3)	partial stay granted by OSHA	fit testing of respirators	-quantitative fit testing postponed for 1 yr from ED -qualitative fit testing is required during interim period -examination if breathing difficulty during fit test or resp usage	1 yr from ED ED
(f)(4)	stay denied	respirator program	-change filter elements whenever increase in breathing resistance noted	ED
(g)	stay denied	protective work clothing & equipment	-for employees with exposure > PEL -coveralls/full-body work clothing, gloves, hats, shoes, face shields, vented goggles -clean change provided at least weekly if PbA > PEL -clean change provided daily if PbA > 200 ug/m ³ -cleaning, laundering, disposal, repair, & replacement at employer's expense	30 days from ED

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<u>SECTION</u>	<u>STATUS OF STAY</u>	<u>REQUIREMENT</u>	<u>EXPLANATION</u>	<u>COMPLIANCE SCHEDULE</u>
(g)-cont'd			-removal of lead from protective clothing or eqpt by blowing, shaking, etc., shall be prohibited	
(h)	stay denied	housekeeping	-all surfaces maintained free as practicable of Pb accumulations -compressed air may not be used to remove accumulated Pb from floors & other surfaces -vacuuming is preferred method; shoveling, dry or wet sweeping, brushing only when vac'g not effective -vacuums used & emptied in way to minimize reentry of Pb into air	30 days from ED
(i)(1)	stay denied	hygiene practices	-presence or use of food, beverage, tobacco products, and cosmetics are prohibited in work area where $PbA > PEL$	ED
(i)(2-5)	stay granted	hygiene facilities	stay is granted to the extent that these sections require the construction of new facilities or substantial renovation of existing facilities otherwise, change rooms, storage facilities for prot cloth'g, showers, lunchroom provisions where $PbA > PEL$ shall continue to be used where already in existence	NA ED
(j)(1)	stay denied	medical surveillance program (general)	-medical exams by licensed MD for all employees exposed to $PbA > AL$ for more than 30 days per year	ASAP after ED
(j)(2)	partial stay granted(see Requirements)	biological monitoring	-must begin upon completion of initial air monitoring (see d 2-3) & completed w/i 90 days -priority given to employees at greatest risk, on basis of air monitoring results or other relevant indications (PbB, tenure, etc) -ZPP monitoring is not required during stay; PbB analysis is -frequency of PbB monitoring: - every 6 months for employees exposed to $PbA > AL$ (30 days/yr) - every 2 mos if previous PbB ≥ 40 ug/100g; continued until 2 consecutive PbBs < 40 ug/100g - monthly during time removed from exposure due to increased PbB	completed 180 days from ED

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<u>SECTION</u>	<u>STATUS OF STAY</u>	<u>REQUIREMENT</u>	<u>EXPLANATION</u>	<u>COMPLIANCE SCHEDULE</u>
(j)(3)	stay granted for (3)(ii)(D) and (3)(iii)	medical exams & multiple physician review	-stay applies only to ZPP test'g and multiple physician review; other med'l exam provisions not stayed -med'l exams for each employee exposed to PbA >AL (30days/yr) • annually if PbB >40 ug/100g • prior to first-time assignment in area w PbB >AL • ASAP after notification by employee of signs & symptoms assoc'd w Pb intox, of difficulty in breathing during resp fit test or resp use, & of desire for med'l advice re effects of current or past expos on reproductive ability • as medically appropriate after removal from exposure due to risk to health -exam to include: detailed work & medical history (esp past expos to Pb, smoking & hygiene habits, & past GI, hematologic, renal, CV, reprod, or neurological problems); thorough physical exam; blood pressure; PbB, hemoglobin, hematocrit, red cell indices, peripheral smear morphology; BUN; serum creatinine; routine urinal; others deemed necessary by MD -information on the Standard, on employee's exposure, protective eqpt used, prior PbBs & med'l opinions shall be provided to the examining MD -written med'l opinion provided to employee re med'l condit'n causing increased health risk if exposed to Pb, recomm'd special prot measures, limit'n to Pb expos or resp use, results of PbB analysis	ED
(j)(4)	stay denied	chelation	the employer shall assure that any person whom he retains, employs, supervises, or controls does not engage in prophylactic chelation of any employee at any time	ED
(k)	stay denied (except for references to multiple physician review)	medical removal protection (MRP)	-MRP benefits include earnings maintenance, seniority, & other rights as though employee had not been removed from normal exposure -MRP may be made conditional based on employee's participation in follow-up med'l surveillance -if workers' comp is granted, MRP obligation may be reduced by that amount	ED

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<u>SECTION</u>	<u>STATUS OF STAY</u>	<u>REQUIREMENT</u>	<u>EXPLANATION</u>	<u>COMPLIANCE SCHEDULE</u>
(k)-cont'd	stay denied	<u>-temporary removal due to elevated PbB:</u>		
		1st yr of Std	if PbA $\geq 100 \text{ ug/m}^3$ and PbB $\geq 80 \text{ ug/100g}$	
		2nd yr of Std	if PbA $\geq 50 \text{ ug/m}^3$ and PbB $\geq 70 \text{ ug/100g}$	
		3rd yr of Std & thereafter	if PbA $\geq 30 \text{ ug/m}^3$ and PbB $\geq 60 \text{ ug/100g}$	
		5th yr of Std & thereafter	if PbA $\geq 30 \text{ ug/m}^3$ and average of last three PbBs $\geq 50 \text{ ug/100g}$, unless the last PbB $\leq 40 \text{ ug/100g}$	
		<u>-return to former job status:</u>		
		1st yr	if PbB was $\geq 80 \text{ ug/100g}$ when 2 consecutive PbBs $\leq 60 \text{ ug/100g}$	
		2nd yr	if PbB was $\geq 70 \text{ ug/100g}$ when 2 consec PbBs $\leq 50 \text{ ug/100g}$	
		3rd yr	if PbB was $\geq 60 \text{ ug/100g}$ when 2 consec PbBs $\leq 40 \text{ ug/100g}$	
		5th yr	if average PbB $\geq 50 \text{ ug/100g}$ when 2 consec PbBs $\leq 40 \text{ ug/100g}$	
(l)	stay denied	training program	-make contents of Appendices A & B known to employees in workplace where potential of PbA exposure at any level -institute train'g prog for employees exposed to PbA $\geq \text{AL}$ or for whom possibil of skin or eye irritation -provided prior to initial job assignment in area of PbA $\geq \text{AL}$ -prog repeated annually for each employee -prog to include: •contents of Std & Appendices •operations w potential expos $\geq \text{AL}$ •purpose, proper selection, fitting, use, & limit'ns of respirators •engineering controls & work practices associated with job assignment •purpose & description of med'l surveill & removal programs •contents of company compliance program •warning against prophylactic use of chelating agents	ASAP, but no later than 180 days from ED
(m)	stay granted	posting signs	-requirement to post warning signs in area where PbA $\geq \text{PEL}$ is stayed	NA
(n)	stay denied	recordkeeping	-record of all monitoring required by section (d)-see above -establish & maintain record of: - med'l surveill for each employee - med'l removals -all records available on request to OSHA or NIOSH	ED

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<u>SECTION</u>	<u>STATUS OF STAY</u>	<u>REQUIREMENT</u>	<u>EXPLANATION</u>	<u>COMPLIANCE SCHEDULE</u>
(n) -cont'd			-records shall be kept for 40 yrs or duration of employment + 20 yrs, whichever is longer -if employer ceases business, successor shall maintain records; otherwise they will be transmitted to NIOSH -at expiration of retention period for records, employer shall notify NIOSH 3 months prior to disposal and transmit them to NIOSH if requested	
(o)	stay denied	observation of monitoring	-affected employees provided opportunity to observe any monitoring of employee exposure to Pb under section (d) -respirators or other protective clothing & eqpt shall be provided as necessary in the area of observation -observers entitled to explanation of measurement procedures, to observe all steps related to the monit'g at the place of exposure, & to record the results obtained	E D

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