

MICHIGAN  
DEPARTMENT OF TRANSPORTATION  
  
SPECIAL PROVISION  
FOR  
**PROVIDING EXPOSURE ASSESSMENTS, EXPOSURE MONITORING,  
EQUIPMENT, HYGIENE FACILITIES, AND TRAINING**

C&amp;T:EMB

1 of 3

C&T:APPR:JG:DBP:01-14-11  
FHWA:APPR:06-01-11

**a. Description.** Provide exposure assessments, exposure monitoring, equipment, hygiene facilities, and training as required by Part 603 Lead Exposure in Construction, of the MIOSHA, to all of the Contractor's employees, FHWA employees, MDOT employees, and to employees of Local Agencies who are acting as inspectors or project managers on any bridge painting projects or on any bridge repair or removal projects where welding, burning, or abrasive blasting of structural steel is being performed. This also applies to all construction work where an employee may be occupationally exposed to lead. The Contractor is responsible for requiring their employees to wear equipment and to use facilities provided by the Contractor; and for providing exposure assessments, exposure monitoring, equipment, hygiene facilities, and training in accordance with Part 603 Lead Exposure in Construction.

**b. Equipment and Facilities.** Provide the employee(s) protective clothing and equipment, change areas, showers, eating facilities, and hand and face washing facilities as required by MIOSHA's Part 603 Lead Exposure in Construction. The equipment and facilities must be on site and fully functional prior to beginning any blast cleaning. Until the Contractor performs an employee exposure assessment and determines actual employee exposure for each job classification, the Contractor must provide to employee all items listed above plus respiratory protection, which must include the respirator, respirator training and fit testing, and a respirator program. Depending on the tasks, the Contractor must provide the appropriate respiratory protection until such time that exposure assessments results are complete. For manual operations, the respirator protection provided to the employee(s) must be based on anticipated (presumed) exposure levels greater than the Permissible Exposure Limit (PEL) ( $50 \mu\text{g}/\text{m}^3$ ), but less than 10 times the PEL ( $500 \mu\text{g}/\text{m}^3$ ). Provide the employee(s), at a minimum, with a half mask air purifying respirator with high efficiency particulate (HEPA) filters, which provides a respiratory protection factor of 10. For tasks such as rivet busting, or power tool cleaning without dust collection systems, the anticipated (or presumed) exposure assessment must be between 10 to no more than 50 times the PEL which requires a higher level of respiratory protection. For tasks such as abrasive blasting or torch cutting, the anticipated exposure assessment must be more than 50 times the PEL. If, through employee exposure assessment, the Contractor determines the actual employee exposure level, then the appropriate respiratory protection can be provided. Provide the employee(s) with protective clothing and equipment, change areas, and hand and face washing facilities as required by MIOSHA's Part 1, General Rules or other relevant safety standards, for removal of non lead containing coatings.

**c. Exposure Assessment.** At a minimum, the Contractor must collect personal samples representative of a full shift including at least one sample for each job classification in each work area either for each shift or for the shift with the highest exposure level. Conduct the initial exposure assessment and any additional exposure assessments, and report the results in accordance with Part 603.

Document the results of the employee exposure assessment(s) on the attached 'Lead Exposure Record' or another Contractor supplied form that reports the exact same pieces of data. The results of the employee exposure assessment(s) must be determined and reported in periods consistent with Part 603. Conduct an exposure assessment of a MDOT Employee designated by the Engineer. Forward MDOT Employee exposure assessment results directly to:

MDOT  
Safety and Security Administration/Confidential  
Van Wagoner Building  
P.O. Box 30050  
Lansing, MI 48909

**d. Training.** Train all employees who are subject to exposure to lead and train employees as designated by FHWA, MDOT, or the Local Agency. Provide the following information at the preconstruction meeting:

1. Name and qualifications of the trainer,
2. Location and time of the training, and
3. An outline of the training to be provided.

Provide each employee with a certificate of training and a wallet card. Present a copy of the certificate or wallet card upon request.

Conduct training within the MDOT Region where the project is located. The training must occur between the hours of 7:00 a.m. and 5:00 p.m. on Tuesday, Wednesday, or Thursday.

**e. Measurement and Payment.** The completed work for Providing Exposure Assessments, Exposure Monitoring, Equipment, Hygiene Facilities, and Training will be considered included in the pay item **Steel Structure, Cleaning, Partial, Type 4** or **Steel Structure, Cleaning, Type 4** or in any associated structural removal pay items with steel beams.

**LEAD EXPOSURE RECORD**

LOCATION

DATE

ACTIVITY

NAME / SOCIAL SECURITY NUMBER	JOB CLASSIFICATION	TIME		ELAPSED TIME	ASSUMED UG/M3	MEASURE DUG/M3/ 8 HRS.	TYPE OF RESPIRATOR WORN	P. F.	Task Performed
		START	END						
(SAMPLE) ROBERT SMITH 375-09-8820	PAINTER	9 AM	2:30 PM	5-1/2 HRS	SEE LEAD EXPOSURE COMPLIANCE PROGRAM	*	HALF FACE WITH HEPA FILTER	25	CHIPPING
**									

SAMPLING/ANALYTICAL PROCEDURE USED:

\* TO BE ENTERED LATER WHEN AND IF RESULTS ARE RECEIVED FROM YOUR SAMPLES

\*\* LIST ALL EMPLOYEES EXPOSED TO LEAD ON THIS FORM who's EXPOSURES ARE REPRESENTED BY ANOTHER INDIVIDUAL THAT IS ACTUALLY MONITORED

Comments: