

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 1 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

Section 59.0 LEAD

A. Purpose

The purpose of this procedure is to provide guidance to **JAGUAR ENERGY SERVICES, LLC** personnel on the potential hazards associated with lead, and to identify occupational settings where this material can be encountered.

1. **JAGUAR ENERGY SERVICES, LLC** has developed and implemented the following to protect their employees and the general public from the possible occupational exposure to lead and comply with OSHA 29 CFR 1910.1025.
2. This procedure establishes **JAGUAR ENERGY SERVICES, LLC** expectations for employees who work at locations where, or the potential of, lead is present, thereby eliminating any potential threat to employee health.
 - (a) Properly implemented it will:
 - (i) Establish **JAGUAR ENERGY SERVICES, LLC** expectations for employees who work at locations where lead containing materials are or may be present.
 - (ii) Aid in complying with OSHA 29 CFR 1910.1025, or other federal, state, and local regulations.
 - (iii) Help eliminate any potential threat to employee health.

B. Scope

This procedure applies to all **JAGUAR ENERGY SERVICES, LLC** personnel working at **JAGUAR ENERGY SERVICES, LLC** or client premises where lead or lead-containing materials could cause a potential health threat.

C. Responsibilities

1. The Safety Coordinator or his/her designee responsible for ensuring that employees have completed the training required by this procedure.
 - (a) Additional responsibilities include:

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 2 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

- (i) The implementation of this Policy.
- (ii) Documentation of completion by each employee.
- (iii) Take corrective actions on all violations or suspected violations of this procedure.
- (iv) Ensuring that this procedure is followed in work done at a client's or **JAGUAR ENERGY SERVICES, LLC** location.
- (v) Ensuring that proper records are maintained on all work performed where lead is present.
- (vi) For reviewing and revising the procedure as required.

2. The Safety Director is responsible for aiding in the implementation of this Procedure.

(a) Additional responsibilities include:

- (i) Keeping the Safety Coordinator informed of any incidents related to this Procedure.
- (ii) Providing appropriate safety equipment to **JAGUAR ENERGY SERVICES, LLC** personnel.
- (iii) Investigating all employee concerns regarding lead on **JAGUAR ENERGY SERVICES, LLC** or client's premises.
- (iv) Reviewing current technical information available on lead.
- (v) Maintaining medical surveillance records on personnel working with lead.
 - (i) The Assistant Secretary of Labor, affected employees and designated employees' representatives shall have access to this program.
- (vi) Investigating all employee concerns regarding lead on **JAGUAR ENERGY SERVICES, LLC** or client premises.
- (vii) Informing the Safety Coordinator of any suspected or newly identified sources of lead at **JAGUAR ENERGY SERVICES, LLC** or client's premises.

3. The Supervisor is responsible for providing assistance in the implementation of this policy.

(a) Additional responsibilities include:

- (i) Informing the Safety Director of any incidents involving lead.

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526 Original Date of Implementation: October 2013 New Effective Date: Reviewed By: Jared Monk	Lead Plan Revision Date: Page 3 of 16 Date: 01/10/2022
---	--

- (ii) Check with the client and/or test any areas where there may be lead exposure to **JAGUAR ENERGY SERVICES, LLC** personnel.
- (iii) Informing the Safety Director of any suspected or newly identified sources of lead at **JAGUAR ENERGY SERVICES, LLC** or client's premises.
- (iv) Ensuring that all employees are informed of any suspected or newly identified sources of lead on **JAGUAR ENERGY SERVICES, LLC** or client's premises.
- (v) Making suggestions to management for ways to improve this Policy.
- (vi) Adhering to the rules and guidelines in this procedure.

4. **JAGUAR ENERGY SERVICES, LLC** personnel are responsible for recognizing and anticipating all job hazards that could involve the exposure of lead to **JAGUAR ENERGY SERVICES, LLC** personnel, client personnel, the general public or impact the environment.

- (a) Additional responsibilities include
 - (i) Completing the training required by this procedure.
 - (ii) Adhering to the rules and guidelines in this procedure.
 - (iii) Reporting to their supervisor any suspected or newly identified sources of lead on **JAGUAR ENERGY SERVICES, LLC** or client's premises.

D. Procedure

1. **Introduction**
Lead is a poisonous, bluish white, metallic element used mostly in combination with other materials and found in pipes, cable sheaths, batteries, paint, gasoline, and solder.
2. **JAGUAR ENERGY SERVICES, LLC** personnel can be required to work at customer sites where lead is present.
 - (a) However, their potential for exposure can be drastically reduced if the proper procedures are followed.

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 4 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

3. **History of Lead**

The earliest use of lead was by the ancient Egyptians.

- (a) It was used to give a "shine" coating to their pottery.
- (b) The Romans actually made cooking utensils from lead, and designed the first plumbing system to carry drinking water.
 - (i) The Romans called lead "plumbus", that's where we get the word "plumber".

4. Today, nearly every time you turn around, you encounter lead.

- (a) Until recently, you could even find lead in gasoline, but because it contributed to air pollution, it was phased out.
- (b) Lead is still used in many applications including:
 - (i) Batteries
 - (ii) Electrical cables
 - (iii) Solder
 - (iv) Bearings for machinery
 - (v) Bullets
 - (vi) Fishing weights

5. The primary concern for our industry is lead containing coatings, and the removal of these coatings from existing piping and structures.

6. Pure lead is a heavy metal and it can be combined with various other substances to form numerous lead compounds found in the following:

- (a) Printer ink
- (b) Dyes
- (c) Explosives
- (d) Medicines
- (e) Insecticides
- (f) Plastics
- (g) Paints

7. **Health Hazards**

In certain doses, lead can be a toxic substance when absorbed into your body.

- (a) The object of the lead standard and this training program is to provide you with the information necessary to prevent absorption of harmful quantities of lead into your body.

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 5 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

- (b) Typical work activities which may generate lead exposure:
 - (i) Welding
 - (ii) Buffing
 - (iii) Grinding
 - (iv) Torch cutting
 - (v) Needle gun chipping
 - (vi) Sand blasting on coated surfaces
- (c) Lead can enter the body by:
 - (i) **Inhalation** (breathing) - When lead is scattered into the air as a dust, fume, or mist, (i.e., grinding or sandblasting), it can be inhaled and absorbed through the lungs and upper respiratory tract.
 - (ii) **Ingestion** (eating) - Ingestion of lead can also occur if you handle food, smoke cigarettes, chew tobacco, etc., in areas which contain airborne lead.

8. **Lead Poisoning**

- (a) Lead poisoning is a reality and is serious.
- (b) Lead fumes are created by welding or cutting metal structures that have been painted with lead coatings.
- (c) Lead dust is also created when you grind or sandblast a surface.
- (d) Knowing how to avoid exposure to lead can help protect you.
- (e) How much lead is too much?
- (f) OSHA has set a national standard for industry.
 - (i) Action level means employee exposure, without the use of respirators, to an airborne concentration of lead of 30 micrograms per cubic meter of air (30 ug/m³) averaged over an 8 hour period.
 - (ii) Permissible exposure limit.
 - (iii) The employer shall assure that no employee is exposed to lead at concentrations greater than 50 micrograms per cubic meter of air (50 ug/m³) averaged over an 8 hour period.
- (g) Symptoms of over exposure are:
 - (i) Headaches
 - (ii) Fatigue
 - (iii) Anemia
 - (iv) Irritability
 - (v) Constipation

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526 Original Date of Implementation: October 2013 New Effective Date: Reviewed By: Jared Monk	Lead Plan Revision Date: Page 6 of 16 Date: 01/10/2022
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- (vi) Muscle and joint pain
- (vii) Stomach cramps
- (h) Lead can also damage the nervous system causing numbness, slowness, and intense irritability.
- (i) Long term exposure can cause kidney damage with few symptoms appearing until extensive damage has been done.
- (i) Lead poisoning can affect the reproductive system of both men and women.
- (j) The human body is constantly removing wastes, including lead.
- (k) When exposed below the PEL, the body can eliminate this level of lead with no side effects.
- (l) Continued exposure above the PEL, however will prevent the body from eliminating the lead to a safe level.

E. Procedure

1. **JAGUAR ENERGY SERVICES, LLC** personnel may be required to work at customer sites where lead is present.
2. OSHA 29 CFR 1910.1025 mandates that companies that have any job sites where employees may be exposed to lead must establish, implement, and make available, a written site specific compliance plan that will reduce exposures to or below the permissible limits.
3. In most cases **JAGUAR ENERGY SERVICES, LLC** personnel will be working under the client's compliance program.
 - (a) In the event that the client does not implement a Lead Compliance Program the following procedures will be used.
4. **JAGUAR ENERGY SERVICES, LLC personnel will not knowingly work in an area where they have the potential for lead exposure.**
5. In most cases the exposures can be reduced to or below the PEL, and interim levels if applicable, solely by means of engineering and work practice controls.
6. Written plans for compliance programs shall include at least the following:

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 7 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

- (a) A description of each operation in which lead is emitted.
 - (i) Machinery used
 - (ii) Material used
 - (iii) Material processed
 - (iv) Controls in place
 - (v) Crew size
 - (vi) Employee job responsibilities
 - (vii) Operating procedures
 - (viii) Maintenance practices
- (b) A description of the specific means that will be employed to achieve compliance will be thoroughly outlined.
 - (i) Including engineering and work practice controls.
- (c) A report of the technology considered in meeting the permissible exposure limit. (P E L)
- (d) Air monitoring data which documents the source of lead emissions.
- (e) A detailed schedule for implementation of the program.
- (f) This documentation should include such items as copies of purchase orders for equipment, construction contracts, etc.
 - (i) A work practice program.
 - (ii) An administrative control.
 - (iii) Other relevant information.

7. Written compliance programs shall be submitted upon request to the Assistant Secretary of Labor and any other relevant local, state, or federal officials, and shall be available at the worksite for examination and copying by these officials or any affected employee or authorized employee representatives.

8. Written compliance programs shall be revised and updated at least every six (6) months to reflect the current status of the program.

9. Exposure Monitoring

No employee will be exposure to lead concentrations greater than the 50 micrograms per cubic meter of air average over a 8 hour period.

- (a) This restriction will be accomplished by implementing an airborne exposure monitoring plan.
- (b) If airborne lead is found to be present in areas where you work, or your activities (ie, grinding, sandblasting, etc.) may generate airborne lead, an initial determination of whether the action level might be exceeded will be made.

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 8 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

- (c) The initial determination will include instrument monitoring of the area for the presence of lead as well as the exposure monitoring of a representative number of employees, who are reasonably expected to have the highest exposure levels.
 - (i) This breathing zone air monitoring will be done with industrial hygiene measurements and will determine employee exposures.
- (d) Employee exposure is that exposure which would occur if the employee were not using a respirator.
- (e) The employee shall collect full shift (for at least seven (7) continuous hours) personal samples, including at least one sample for each shift for each job classification in each work area.
- (f) Full shift samples shall be representative of the monitored employee's regular, daily exposure to lead.
- (g) If the initial monitoring reveals employee exposure to be below the action level, the measurements need not be repeated except whenever there has been a production, process, control, or personnel change, which may result in new or additional exposure to lead, or whenever a client or **JAGUAR ENERGY SERVICES, LLC** has any other reason to suspect a change which may result in new or additional exposures to lead, additional monitoring will be conducted.
- (h) If initial determination or subsequent monitoring reveals employee exposure to be at or above the action level, but not below the permissible exposure limit, monitoring will be repeated at least every 6 months.
- (i) The Client/**JAGUAR ENERGY SERVICES, LLC** shall continue monitoring at the required frequency until at least two consecutive measurements, taken at least 7 days apart, are below the action level.
- (j) Once below the action level the Client/**JAGUAR ENERGY SERVICES, LLC** will discontinue monitoring for that employee.
- (k) If the initial monitoring reveals that employees exposure is above the permissible exposure limit the Client/**JAGUAR ENERGY SERVICES, LLC** shall repeat the monitoring quarterly.
- (l) The Client/**JAGUAR ENERGY SERVICES, LLC** shall continue monitoring at the required frequency until at least two consecutive measurements, taken 7 days apart, are below the PEL, but at, or above, the action level, at which time the Client/**JAGUAR ENERGY SERVICES,**

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526 Original Date of Implementation: October 2013 New Effective Date: Reviewed By: Jared Monk	Lead Plan Revision Date: Page 9 of 16 Date: 01/10/2022
---	--

- (m) **LLC** shall repeat monitoring for that employee at the required frequency.
Within 5 working days after the receipt of monitoring results, the Client/**JAGUAR ENERGY SERVICES, LLC** shall notify each employee in writing of the results which represent that employee's exposure.

10. Whenever the results indicate that the representative employee exposure, without regard to respirators, exceeds the permissible exposure limit, the Client/**JAGUAR ENERGY SERVICES, LLC** shall include in the written notice, a statement that the permissible exposure limit was exceeded and the corrective action taken, or to be taken, to reduce exposure to, or below, the permissible exposure limit.

- (a) This can be done by the use of engineering controls and the use of proper PPE to reduce employee exposures.

11. Where any employee is exposed to lead above the permissible exposure limit for more than 30 days per year, the Client/**JAGUAR ENERGY SERVICES, LLC** shall implement engineering and work practice controls (including administrative controls) to reduce and maintain employee exposure to, or below, the permissible exposure of lead.

- (a) If such controls are not feasible, the reasons will be demonstrated and documented.
(b) If engineering and work practice controls do not reduce exposure to acceptable limits the Client/**JAGUAR ENERGY SERVICES, LLC** will use respirators as a supplementary means of action.

12. **Respiratory Protection**

Where engineering and work practice controls do not reduce employee exposure to or below the 50 ug/ml permissible exposure limit (PEL), the Client/**JAGUAR ENERGY SERVICES, LLC** shall supplement these controls with powered, air purifying respirators.

- (a) Where the use of respirators are required, the Client/**JAGUAR ENERGY SERVICES, LLC** will:
- (i) Provide them, at no cost, to the employee.
 - (ii) Assure the use of respirators which comply with all applicable federal, state, and local regulations.
- (b) Respirators shall be used in the following circumstances:

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 10 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

- (i) During the time period necessary to install or implement engineering or work practice controls.
- (ii) In work situations in which engineering and work practice controls are not sufficient to reduce exposures to, or below, the permissible exposure limit (PEL).
- (iii) Whenever an employee requests a respirator.

13. **Respirator Selection**

Where respirators are required the Client/**JAGUAR ENERGY SERVICES, LLC** shall select the appropriate respirator or combination of respirators from applicable sources.

- (a) The Client/**JAGUAR ENERGY SERVICES, LLC** shall provide a powered air-purifying respirator (PAPR) in lieu of specified respirator(s) whenever:
 - (i) An employee chooses to use this type of respirator.
 - (ii) This respirator will provide adequate protection to the employee.
- (b) The Client/**JAGUAR ENERGY SERVICES, LLC** shall select respirators from among those approved for protection against lead dust, fumes, and mist by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) under the provisions of 30 CFR Part 11.

14. **Respirator Usage**

- (a) The Client/**JAGUAR ENERGY SERVICES, LLC** shall assure that the respirator issued to the employee exhibits minimum facepiece leakage and that the respirator is fitted properly.
- (b) The Client/**JAGUAR ENERGY SERVICES, LLC** shall perform either quantitative or qualitative face fit tests at the time of initial fitting and at least every six (6) months thereafter for each employee wearing negative pressure respirators.

15. **Respirator Program**

The Client/**JAGUAR ENERGY SERVICES, LLC** shall institute a respiratory protection program in accordance with 29 CFR 1910.134 (b), (d), (e) and (f).

- (a) The Client/**JAGUAR ENERGY SERVICES, LLC** shall permit each employee who uses a filter respirator to

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 11 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

- change the filter elements whenever an increase in breathing resistance is detected and shall maintain an adequate supply of filter elements for this purpose.
- (b) Employees who wear respirators shall be permitted to leave work areas to wash their face and respirator facepiece whenever necessary to prevent skin irritation associated with respirator use.
- (c) The Client/**JAGUAR ENERGY SERVICES, LLC** shall provide, at no cost to the employee, and assure the use of respirators which comply with all applicable federal, state, and local regulations.
- (d) All respirators used for protection against lead dust, fumes, and mist must be of the types approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) under the provisions of 30 CFR Part 11.
- (e) An employee may choose this type of respirator at no extra cost to himself.
- (f) Respirators shall be used during the time period necessary to install or implement engineering or work practice controls.

16. **Personal Protective Equipment**

The Client/**JAGUAR ENERGY SERVICES, LLC** will provide employees the proper personal protective equipment, at no cost, when the possibility of lead exposure exists.

- (a) The proper personal protective equipment shall consist of, but not be limited to, the following:
 - (i) Gloves
 - (ii) Hard hats
 - (iii) Vented goggles
 - (iv) Steel - toed shoes or boots
 - (v) Disposable shoe covers
- (b) Protective clothing shall be kept in a clean and dry condition and changed daily or as needed.
- (c) Protective clothing shall be cleaned, laundered, properly disposed, and repaired or replaced as necessary.

17. **Medical Surveillance**

The Client/**JAGUAR ENERGY SERVICES, LLC** shall:

- (a) Institute a medical surveillance program for all employees who are, or may be, exposed above the action level for more than 30 days per year.

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 12 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

- (b) Assure that all medical examinations and procedures are performed by, or under the supervision of, a licensed physician.
- (c) Provide the required medical surveillance including multiple physician review, without cost to employees, and at a reasonable time and place

18. Blood Lead Levels, Monitoring, and Employee Notification

Blood lead sampling and monitoring shall be conducted at initial assignment and at least every six (6) months until two consecutive blood samples and analyses are acceptable.

- (a) Blood sampling and monitoring activities shall be performed at least monthly during the abatement and removal period.
- (b) Any employee(s) with elevated blood lead levels shall be temporarily removed from the job.
- (c) Employees shall be notified in writing within five (5) days when blood lead levels are not acceptable.
- (d) This will be done with Medical Removal benefits as per the standard.

19. Recordkeeping

The Client/**JAGUAR ENERGY SERVICES, LLC** shall establish and maintain an accurate record of all monitoring for each employee.

- (a) This record shall include:
 - (i) The date(s), number, duration, location and results of each of the samples taken, including a description of the sampling procedure used, to determine representative employee exposure where applicable.
 - (ii) A description of the sampling and analytical methods used and evidence of their accuracy.
 - (iii) The type of respiratory protective devices.
 - (iv) Name, social security number, and job classification of the employee monitored, and of all employees whose exposure the measurement was intended to represent.
 - (v) The environmental variables that could affect the measurement of employee exposure.
- (b) The Client/**JAGUAR ENERGY SERVICES, LLC** shall maintain these monitoring records for at least 40 years, or for the duration of employment plus 20 years, whichever is longer.

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 13 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

20. Decontamination, Changing and Hygiene Facilities

- (a) The Client/**JAGUAR ENERGY SERVICES, LLC** shall provide change rooms, showers, and filtered air lunchrooms to workers exposed to lead at concentrations above the PEL.
- (b) When the PEL is exceeded, the Client/**JAGUAR ENERGY SERVICES, LLC** will assure that food and beverages are not present or consumed, tobacco products are not present or used, and cosmetics are not applied, except in these facilities.
- (c) After showering, no clothing or equipment worn during the shift may be worn home, and this includes shoes and underwear.
- (d) Lunchrooms may not be entered with protective clothing or equipment unless surface dust has been removed by vacuuming, downdraft booth, or other cleaning method.

21. Operations Where Lead May Be Encountered

The potential for **JAGUAR ENERGY SERVICES, LLC** personnel to be exposed to lead is most likely to occur as a result of lead-based paint removal.

- (a) Tiny particles of chipped paint can be generated during this activity creating an airborne lead hazard.
- (b) **JAGUAR ENERGY SERVICES, LLC** personnel can encounter lead in the following situations:
 - (i) Peeling, flaking, or chipped paint.
 - (ii) Blasting removal of old paint.

22. Any employee assigned to work in an area with a potential for exposure above the permissible exposure level (PEL) to airborne lead, will be provided with additional comprehensive training prior to performing work.

- (a) The elements include:
 - (i) Special clothing
 - (ii) Change rooms
 - (iii) Special washing facilities
 - (iv) Respiratory protection
 - (v) Medical Surveillance

23. Signs

Signs are required to be illuminated and cleaned as necessary so that the legend is readily visible.

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 14 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

- (a) No statement can appear on, or near, any sign which contradicts or detracts from the meaning of the required sign.
- (b) The OSHA standard requires that the following warning sign be posted in work areas where the exposure to lead exceeds the PEL:
- (c) The signs shall not be removed or defaced.

WARNING

LEAD WORK AREA

POISON

NO SMOKING OR EATING

24. Summary of Lead Work Practices **When working in an area where lead abatement, removal, or repair is being conducted, JAGUAR ENERGY SERVICES, LLC personnel must evacuate the area.**

- (a) If observed tasks are being conducted in a manner inconsistent with proper work practices, **JAGUAR ENERGY SERVICES, LLC** personnel should notify the Client and Safety Director.
- (b) The table below summarizes what to observe when evaluating an asbestos work area for potential hazards.

Proper Method	Improper Method
Work areas are posted with appropriate lead warning signs.	No lead warning signs are present.
Lead paint is being removed using wet methods.	Lead paint is being removed, scraped or blasted while dry.
Compressed air removal systems have ventilation to contain all generated dust.	Compressed air is being used to remove lead paint with no containment ventilation.
Removal work is conducted in a glovebag or other well-constructed containment.	Removal is not contained, being conducted in open air.
Lead waste is thoroughly cleaned up and disposed of in sturdy disposal bags/containers.	Lead waste is left in the work area, disposed of in regular trash.

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 15 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

- (a) The best way to prevent all forms of lead related impairments and diseases, both short and long term, is to prevent over exposure to lead.
- (b) **JAGUAR ENERGY SERVICES, LLC** has the prime responsibility to assure that the requirements of the standard are complied with.
- (c) You as an employee also have a responsibility to assist in compliance.
- (d) You can play a key role in protecting your own health by learning about lead hazards and their control, and following safe work practices concerning your job.

B. Training Requirements

1. When there is a potential exposure to airborne lead in the workplace at any level, **JAGUAR ENERGY SERVICES, LLC** shall inform employees of the content of Appendices A and B of OSHA regulation 29 CFR 1910.1025 and institute a training program.
2. They will assure the participation of all employees who are subject to lead exposure at, or above, the action level or for whom the possibility of skin or eye irritation exists.
3. **JAGUAR ENERGY SERVICES, LLC** personnel must be trained:
 - (a) Contents of this standard and its appendices
 - (b) To an awareness level on lead.
 - (c) In the locations where lead can be encountered in the workplace.
 - (d) Symptoms of lead exposure including:
 - (i) Loss of appetite
 - (ii) Headache or dizziness
 - (iii) Metallic taste in mouth
 - (iv) Muscle or joint pain
 - (v) Numbness
 - (vi) Hyperactivity or insomnia
 - (e) Health effects of lead exposure:
 - (i) Acute
 - (i) Encephalopathy
 - (ii) Seizures
 - (iii) Coma
 - (iv) Death
 - (ii) Chronic

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Lead
Original Date of Implementation: October 2013 New Effective Date:	Plan Revision Date: Page 16 of 16
Reviewed By: Jared Monk	Date: 01/10/2022

- (i) Damage to brain tissue, reproductive system, urinary tract, and the nervous system.
- (f) The employee's right of access to records under 29 CFR 1910.20
- (g) Proper work practices for lead removal.
- (h) The specific nature of the operations which could result in exposure to lead above the action level.
- (i) The purpose, proper selection, fitting, use, and limitations of respirators.
- (j) The purpose and a description of the medical surveillance program, and the medical removal protection program, including information concerning the adverse health effects associated with excessive exposure to lead (with particular attention to the adverse reproductive effects on both males and females).
- (k) The engineering controls and work practices associated with the employee's job assignment.
- (l) The contents of any compliance plan in effect.
- (m) Instructions to employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician.
- (n) The contents of this procedure.

C. Training Frequency

1. **JAGUAR ENERGY SERVICES, LLC** personnel will be trained according to the following schedule:
 - (a) Prior to initial job assignment.
 - (b) Annually thereafter