Antelope Valley Station & Leland Olds Station Procedure

Program No.	Revision No.	Page	Of
AVS/LOS Safety 001	0	1	17
Originating Department	**Final Approver**	**Date**	
Safety Department	LOS/AVS Plant Manager	8/28/24	
Subject			
Dropped Object Prevention Plan			

1.0 PURPOSE / SCOPE

1.1 Purpose

1.1.1 Basin Electric Power Cooperative (BEPC) Antelope Valley Station (AVS) and Leland Olds Station (LOS) is committed to providing a safe and healthful environment for employees. It is our policy to protect employees from occupational injuries by implementing and enforcing safe work practices.

1.1.2 The Dropped Object Prevention Plan is to elevate awareness to the potential for falling objects, and the damage and injury that can be prevented by an evaluation of our areas, recognition of the hazards, and implementing established procedures.

1.1.3 The plan will provide guidance for both management and workers to recognize the hazards and select the most appropriate preventative actions.

1.2 Scope

1.2.1 Intended to significantly reduce both hazards and severe injury and risks to employee(s) that dropped objects pose.

1.2.2 To establish minimum requirements for securing tools and equipment to minimize the risk of injury to employees exposed to dropped objects.

1.2.3 To ensure that workers are trained to secure tools at height and understand correct procedures.

2.0 DEFINITIONS

2.1 Anchorage: a secure point of attachment for tethers, tools and transport buckets with closure systems which is independent of an anchorage used for fall protection for personnel.

2.2 Drop Hazard: any tool, material or object that has an opportunity to fall from elevation to lower level causing potential for damage to property, injury or death.

2.3 Dropped Object Zone (DOZ): an area with potential to be impacted by drop hazards currently present in a work-in-progress above. The DOZs are to be secured with

2.14 Tool Lanyard/Tether: an extension made of durable materials that is designed to prevent an object from being dropped. A connection point on either end of the tether for securing an object to a worker or stationary item shall be utilized.

2.15 Tool Pouch: a bag or pouch designed to secure single tools or items (hammer, wrench, radios, etc.) from being spilled or dropped.

3.0 APPLICABILITY/RESPONSIBILITY

3.1 Applicability

This program applies to all employees, contractors and visitors at Antelope Valley Station (AVS) and Leland Olds Station (LOS).

3.2 Responsibility

3.2.1 Safety Coordinator is responsible for:

3.2.1.1 Developing and administering the Dropped Object Prevention Plan.

3.2.1.2 Correcting any unsafe practices or conditions immediately.

3.2.1.3 Reviewing and updating the program at least once every three years.

3.2.1.4 Conducting necessary training on this program.

3.2.1.5 Monitoring work areas in a way that reduces workers' potential for hazards from falling objects.

3.2.1.6 Stopping work if hazardous conditions prevent the job from being done safely.

3.2.2 Supervisory Authority is responsible for:

3.2.2.1 The safe administration of this program.

3.2.2.2 Enforcing the program and disciplinary action regarding violations of this program.

3.2.2.3 Stopping work if hazardous conditions prevent the job from being done safely.

3.2.5 On-Site Coordinators are responsible for:

3.2.5.1 Enforcing and ensuring compliance by all contractors with the Dropped Object Prevention Plan.

3.2.5.2 Correcting any unsafe practices or conditions immediately.

3.2.5.3 Providing training on the AVS and LOS Dropped Object Prevention Plan.

3.2.5.4 Stopping work if hazardous conditions prevent the job from being done safely.

3.2.5.5 Immediately reporting any dropped or fallen objects to safety.

3.2.6 Contractors are responsible for:

3.2.6.1 Providing employees with appropriate dropped object prevention training.

3.2.6.2 Enforcing and ensuring compliance by all employees with the Dropped Object Prevention Plan.

3.2.6.3 Correcting any unsafe practices or conditions immediately.

3.2.6.4 Planning tasks and monitoring work areas in a way that reduces the potential for workers to be exposed to hazards from falling objects.

3.2.6.5 Reporting any dropped or fallen objects to the AVS and LOS On-Site and/or Safety Coordinator.

3.2.6.6 Stopping work if hazardous conditions prevent the job from being done safely.

4.0 GUIDELINES/PROCEDURE

4.1 Guidelines

4.1.1 Dropped Object Zones

4.1.1.1 Dropped Object Zones are to be clearly marked with red barricade tape to restrict access.

4.1.3.5 Squids 3400 Glove Clip Holder with Dual Clips, CAT ID 198161

4.1.4 Tool Holsters/Pouches

4.1.4.1 For some tools and objects, a tool holster or pouch may be appropriate. Tools used in these holsters should weigh less than or equal to the manufactured stated load-rating.

4.1.5 Tool Buckets

4.1.5.1 For the safe transportation of tools and materials at heights or while lifting, buckets may be utilized only if they are manufactured with a closure system which allows the user to secure the contents of the bucket from potential spills.

4.1.5.2 Tool buckets not to exceed 50lbs max weight. If exceedance occurs, other methods shall be utilized such as a hoist/overhead crane.

4.1.5.3 Hoist bucket with zipper closure, CAT ID 268813

Arsenal 5974 Large Nylon Hoist Bucket Tool Bag - Swiveling Carabiner, Zipper Top

4.1.6.5.2 Keep tethered equipment on a person to a minimum.

4.1.6.5.3 Total weight of all tools being tethered to a person with the addition of a harness must not exceed 310 lbs.

4.1.6.5.4 Keep tool tethers clear of rotating equipment.

4.1.7 Toe Boards

4.1.7.1 Toe boards will be erected along the edge of overhead work in order to protect employees below as applicable.

4.1.8 Safety Netting / Fencing

4.1.8.1 Nets designed for use to prevent falling objects shall not be used as fall protection for human beings.

4.1.8.2 The use of safety nets shall be evaluated by On-Site Coordinators when planning outage work.

4.1.8.3 Snow fencing (CAT ID 167083) or netting is to be zip-tied between top rail to toe board height in order to prevent objects from being tipped over from walkways or scaffolding in high traffic areas if the area is not barricaded below.

4.1.8.4 Visual inspections of safety netting shall be completed, and defective netting will not be deployed.

4.1.9 Decking / Floor Openings

4.1.9.1 If decking is to be engaged, it will need to be evaluated to ensure any openings are not large enough for tools or materials to pass through.

4.1.9.2 It is recommended they be enclosed with a blanket, hole cover, screen, etc. to prevent materials from passing through.

4.1.10 Housekeeping

4.1.10.1 Trash and waste should be kept in appropriate containers which are to be located in convenient locations across the workplace. When removed from elevated locations, trash and materials need to be properly placed to not fall over edges. When lowering filters, packing, insulation, etc. a barricaded drop zone is required.

4.1.12.2 When transferring a tethered tool from one employee to another, "100% tie off" should be engaged. The tool should be tethered to the passing employee. Prior to handing off, the receiving employee should connect their tether to the tool as well. After positive connection has been completed, the passing employee may disconnect their tether from the tool. By utilizing this passing method, the tool never has an opportunity to become a drop hazard.

4.1.12.3 Secure loads and do not overload carts when moving material.

4.1.13 Demolition

4.1.13.1 When equipment is to be demolished, special attention must be given to securing, leveling and rigging the material to be removed.

4.1.13.2 When sheet metal, wall board or panels, or plating is to be cut out, a hole shall be drilled or cut to allow for cables and shackles to be attached to eliminate the potential to drop the material when the cut is complete. If this is not feasible, other adequate and equally effective means shall be considered and documented on the JSA.

4.1.13.3 Insulation shall be evaluated for integrity and properly abated or secured, if necessary, before demolition.

4.1.14 Hoisting and Lifting

4.1.14.1 Should tools and equipment need to be raised / lowered to or from an upper work area, this work will be performed by a crane wherever feasible. If use of a crane is not feasible, the material will be raised using a rope with the tools and equipment securely tied or in a closed top tool bucket.

4.1.14.1.1 Only manufactured tool buckets designed for rigging shall be used.

4.1.14.1.2 Plastic or metal buckets with wire handles shall not be used for hoisting or lifting.

4.1.14.1.3 Ropes shall be inspected for tears, frays, grease, knots, etc. Ropes must be in good working condition.

4.1.14.2 Do not overload the bucket based off manufacture ratings.

4.1.14.3 Any bucket on an elevated surface with an unprotected edge must be secured to the work platform or located appropriately to prevent the bucket from tipping over or falling to a lower level.

4.2.1.4 Outage and construction project environments with limited "real estate" or work areas require a higher level of protection from falling objects for workers engaged in their work tasks. AVS and LOS expects these factors to be considered to provide a safe working environment.

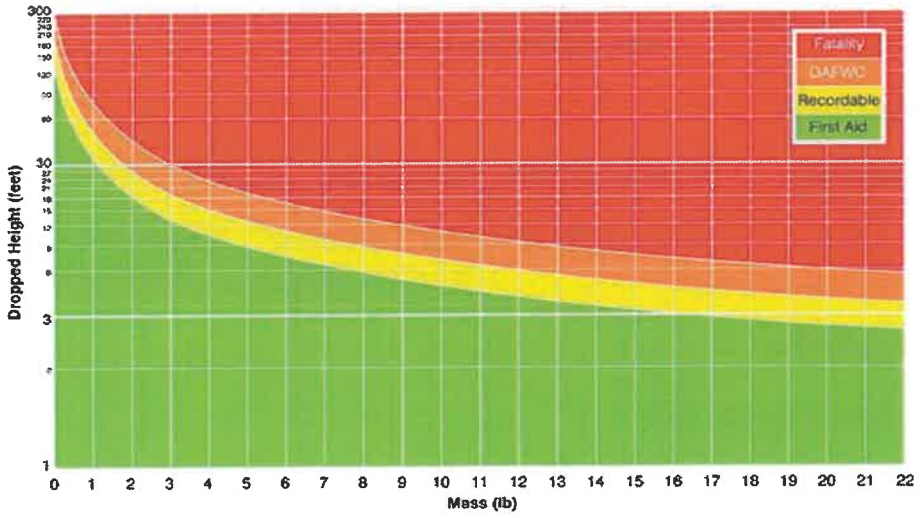
4.2.1.4.1 Housekeeping
4.2.1.4.2 Barricading
4.2.1.4.3 Overhead protection or side protection (netting)
4.2.1.4.4 Effective work coordination and scheduling
4.2.1.4.5 Human factors (fatigue, inattention, lack of pre-planning)

4.2.2 Reporting and Classification for Dropped Objects

4.2.2.1 Dropped objects that do not result in an injury or are found shall be reported as a near miss.

4.2.2.2 Potential dropped objects shall be reported as an Observation.

4.2.2.3 The Safety Department will determine the potential for injury by utilizing the Dropped Objects Calculator.



4.2.3 Training Requirements

4.2.3.1 Employees shall be trained initially and every three years thereafter.

4.2.3.2 Training shall include but not limited to:

4.2.3.2.1 Nature of drop hazards and dropped objects in the workplace.

7.2 Site Procedures

7.3 AVS #144 Barricading / Hazardous Areas

7.4 LOS-SAF-05 Barricade Tape Procedure

7.5 AVS #28 Scaffolding

7.6 AVS #500 AVS and LOS Fall Protection Program

7.7 AVS #132 Personal Protective Equipment

7.8 LOS-SAF-39 Personal Protective Equipment Program

7.9 AVS #67 Aerial / Scissor Lift Operation

7.10 AVS #180 Mobile Crane Operation

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Approved By	Approval Date

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