



April 03, 2009

MEMORANDUM FOR MICHAEL A. DAVIS
Deputy Assistant Secretary for Operations
Mine Safety and Health

THROUGH: CHARLES J. THOMAS *Charles J. Thomas*
Director of Accountability for
Mine Safety and Health Administration

FROM: ARLIE A. WEBB *A. Webb for*
Accountability Specialist

SUBJECT: MSHA Office of Accountability Audit, MNM South Central
District, Dallas, Texas, Field Office, and [REDACTED]

Introduction

This memorandum summarizes the Office of Accountability audit of the subject field office and mine. Audit subjects include MSHA field activities, level of enforcement, Field Activity Reviews, Accompanied Activities, MSHA supervisory and managerial oversight, mine plans, and the conditions and practices at the mine. The audit was conducted by Arlie A. Webb during the week of [REDACTED]. Positive findings and issues requiring attention are included in this audit report.

Overview

The field office review was conducted on [REDACTED] and the on-site portion of the audit was conducted on [REDACTED]. Accompanying the auditor were [REDACTED].

[REDACTED] Special thanks to [REDACTED] for his assistance with the training records, advice and assistance during the field office and on-site portions of this audit.

On-site areas examined included the active pit, haul roads, berms, main crusher/rock breaker, stacker belts, scrubber, log washer, mobile shop, fuel storage area, reclaim areas, training center, training records, mine records, sediment and water storage impoundments. Most of the mobile equipment on mine property was inspected during this audit, including 4 front-end loaders, 4 haul trucks, a bulldozer, rock breaker, rock drill, bobcat loader, and contractor service truck. Also inspected were

oxygen/acetylene welding equipment, man-lifts, electrical installations, and personal protective equipment such as safety harnesses.

S&S Rate Comparison

S&S rates for the Dallas, Texas field office are below the district and national levels for Fiscal Year 2008, as well as to-date in FY 2009.

S & S Rate Comparison			
Fiscal Year	Field Office	South Central District	National Average
2008	14.9%	19.2%	20.9%
2009	11.5%	19.8%	19.8%

A review of current enforcement actions at this particular mine indicate that gravity, negligence, and number of person affected are being correctly determined.

Time and Activity Comparison

Time distribution for E01 inspections conducted out of the Dallas Field Office from January of 2008 to January of 2009 is commendable, with an average of 61.2 percent of the total inspection time being spent on-site.

Surface Facilities - E01 Inspections						
	Travel	Other	On Site	Citations Written On-site	Citations Written Off-site	Total Percent
% of Total	20.6	10.7	63.1	0.4	5.2	100.0

Surface Mines - E01 Inspections						
	Travel	Other	On Site	Citations Written On-site	Citations Written Off-site	Total Percent
% of Total	24.4	14.4	54.5	1.1	5.6	100.0

Underground Mines - E01 Inspections						
	Travel	Other	On Site	Citations Written On-site	Citations Written Off-site	Total Percent
% of Total	20.8	9.4	66.1	0.3	3.4	100.0

Recommendation - The Office of Accountability recommends that inspectors issue citations while on-site to improve safety and increase inspector presence on-site.

Audit Results

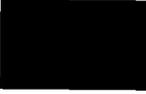
The audit revealed positive findings in several areas, including the following:

1. The South Central District has a highly commendable system for tracking supervisory and managerial mine visits.
2. Supervisors and managers visit mines on a regular basis.
3. CLR decisions and advice given to inspection personnel appears to be in compliance with national guidelines.
4. Inspector on-site time is commendable, and time spent in the "other" category is low.
5. Additional accountability reviews are regularly conducted within the district.
6. Although the number of citations issued at the operation involved in this audit appears low, observations made during a two-day mine visit revealed the company to have an excellent compliance attitude and a proactive safety program that is geared toward employee accident prevention.

The audit also revealed several issues that require corrective actions, including the following:

1. Additional emphasis needs to be placed on the hazards involved with falling or flying materials, especially those related to accumulated materials on overhead belt conveyor structures above walkways and roadways.
2. Field Activity Reviews and Accompanied Activity Reports should contain more detailed documentation of both positive and negative observations regarding inspector work products and performance.
3. Although the district has a spreadsheet for tracking accountability reviews and corrective actions, the column headings in the spreadsheet should be revised to better define which entries are corrective actions and which are methods for measurement of those actions.
4. The field office needs to insure that operators correctly complete MSHA Form 7000-1 (Mine Accident and Injury), especially with regard to information regarding actions to prevent similar accidents in the future.
5. The Dallas Field Office needs an Office Assistant to allow [REDACTED] to spend more time with inspectors rather than performing secretarial duties.

Attachments

- A. Office of Accountability Checklist with comments, recommendations, and references.
- B. Citations issued during the audit
 - a.  56.12004
 - b.  56. 9300a
- C. Recommended "Best Practices" bulletin regarding flying or falling materials from overhead structures.

1. Evaluate supervisory review of inspection reports and documentation for completeness.
Adequate Inadequate Not Applicable Comments Below

2. Determine if supervisors address report deficiencies immediately
Adequate Inadequate Not Applicable Comments Below

4. Evaluate the quality of Field Activity Review reports (FARs)
Adequate Inadequate Not Applicable Comments Below

Recommendation - Supervisors should include more detailed documentation of FARs to assist them in mentoring inspectors.

5. Determine if supervisors/managers are identifying and addressing performance or behavior based issues during and after accompanied inspections are conducted
Adequate Inadequate Not Applicable Comments Below

There was one apparent issue regarding lax enforcement noted during the research for this audit. One [redacted] had only issued [redacted] citations over a period of more than [redacted] years and had an S&S percentage of [redacted]. This issue no longer applies to the South Central District because [redacted]

Recommendation - The Office of Accountability recommends a) increased attention to inspector work products (improved FARs), and b) enhanced accompanied activities, to better protect the miners and avoid future problems associated with lax enforcement.

District Field Office Mine ID

6. Evaluate the quality of Accompanied Inspections

Adequate Inadequate Not Applicable Comments Below

Recommendation – Supervisors should include more detailed documentation of Accompanied Activities to assist them in mentoring inspectors.

8. Determine if Assistant District Manager is holding supervisor accountable for general mine visits, FARs, and accompanied activities

Adequate Inadequate Not Applicable Comments Below

The ADM is monitoring supervisory mine visits, FARs and AAs.

11. Determine if ADMs and DMs are visiting mines with poor compliance at least monthly

Adequate Inadequate Not Applicable Comments Below

16. Determine if supervisors, staff assistants, and other management personnel are reviewing work products for accuracy and completeness

Adequate Inadequate Not Applicable Comments Below

17. Determine if supervisors are monitoring inspector time and activity documentation to ensure proper use of time by inspector

Adequate Inadequate Not Applicable Comments Below

18. Determine if Standard Operating Procedures (SOPs) are in place, current, and in compliance with MSHA policies and procedures

Adequate Inadequate Not Applicable Comments Below

District Field Office Mine ID

20. Determine if supervisors are adequately evaluating the level of enforcement by visiting each producing mine

Adequate Inadequate Not Applicable Comments Below

23. Determine if second level reviews are used to assess supervisory review of enforcement actions

Adequate Inadequate Not Applicable Comments Below

24. Determine if appropriate actions are taken by supervisors and manager with respect to issues of misconduct and/or poor performance

Adequate Inadequate Not Applicable Comments Below

Adequate with one exception. The issue regarding apparent poor performance mentioned in Item No. 5 above, should have been dealt with prior to [REDACTED]

Recommendation – Supervisors and managers should monitor all AR activities and correct issues of poor performance in a timely manner.

25. Evaluate inspector/specialist knowledge of documentation required and process for completing PKW Forms.

Adequate Inadequate Not Applicable Comments Below

29. Determine if complete and thorough inspections are being conducted and adequately documented

Adequate Inadequate Not Applicable Comments Below

With the exception of the issue mentioned in Item No. 5, thorough and complete inspections were being made by the personnel in the Dallas, Texas field office and at the audited mine. See item 5 and item 24.

District Field Office Mine ID

31.	Determine that the inspector spent sufficient time on off-shifts and on weekends		
Adequate	<input checked="" type="checkbox"/>	Inadequate	<input type="checkbox"/>
		Not Applicable	<input type="checkbox"/>
Comments Below			

34.	Determine if all mine record books, postings, and other required materials are examined during the inspection		
Adequate	<input checked="" type="checkbox"/>	Inadequate	<input type="checkbox"/>
		Not Applicable	<input type="checkbox"/>
Comments Below			

36.	Determine if the amount of time expended on each inspection activity and area of the mine is sufficient to accomplish inspection goals		
Adequate	<input checked="" type="checkbox"/>	Inadequate	<input type="checkbox"/>
		Not Applicable	<input type="checkbox"/>
Comments Below			

37.	Evaluate each citation/order/safeguard for inspector's determination of gravity, negligence, number of persons affected, and the level of enforcement		
Adequate	<input type="checkbox"/>	Inadequate	<input checked="" type="checkbox"/>
		Not Applicable	<input type="checkbox"/>
Comments Below			

Although the number of issuances at this mine has historically been low, on-site observations made over a two-day period revealed this particular operator to be very safety conscious. This operator has an excellent proactive safety department. Only two citations were issued during those two days.

However, one exception was noted regarding protection of persons from falling or flying material. The audit revealed that material (dust, rock chips, etc.) was collecting on the structural supports for overhead belt conveyors. This material had accumulated to the point that large amounts, weighing several pounds, could easily fall onto persons or vehicles using the paths and roads beneath the structures. In one instance, a small amount of this material fell to a roadway during the inspection. 30 CFR, §56.14110 requires that persons be protected from flying or falling objects, and interviews with supervisors and managers indicate this problem may be systemic to the entire region.

Action Required – Strict, consistent enforcement of 30 CFR, §57.14110.

Recommendation - Issuance of a "Best Practices" poster (Example is attached) to place mine operators on notice that such hazards must be eliminated by housekeeping, guarding, or both.

39. Check adequacy of preshift/onshift examinations

Adequate Inadequate Not Applicable Comments Below

41. Evaluate operator's workplace examinations

Adequate Inadequate Not Applicable Comments Below

48. Examine electrical cables on several pieces of equipment

Adequate Inadequate Not Applicable Comments Below

Numerous electrical cables on equipment, substations, and at the plant were inspected during this audit. Only one electrical violation was observed. A citation was issued for a damaged electrical cable on the main crusher.

60. Determine if all required record books are adequately completed and in compliance with applicable standards

Adequate Inadequate Not Applicable Comments Below

62. Examine mine bulletin board and evaluate adequacy of all required postings

Adequate Inadequate Not Applicable Comments Below

District Field Office Mine ID

66. Determine if districts are conducting sufficient, in-depth Peer Reviews

Adequate Inadequate Not Applicable Comments Below

Accountability reviews at the district level appeared thorough and included a root cause analysis for each issue. A spreadsheet is maintained to track reviews and document the corrective actions and time lines for completion.

Recommendation – The spreadsheet is somewhat vague regarding the purpose of columns “U,” “V,” & “W.” Revision of the headers for these columns would promote a better understanding of what methods will be used to measure the effectiveness of corrective actions.

67. Determine if MSHA headquarters is conducting sufficient, in-depth Peer Reviews

Adequate Inadequate Not Applicable Comments Below

68. Determine if Peer Reviews identify root causes of deficiencies, corrective actions, set time lines for corrections, and identify a method for accurately measuring the success or failure of corrective actions.

Adequate Inadequate Not Applicable Comments Below

See Item No. 66 above.

69. Determine if Peer Reviews are being used to assess supervisors and managers performance

Adequate Inadequate Not Applicable Comments Below

70. Determine if Peer Reviews include a visit to the mine, and include observation of the producing section, conveyor belt entries, escapeways and the ERP provisions

Adequate Inadequate Not Applicable Comments Below

District Field Office Mine ID

75. Evaluate approved training plan after discussion with miners

Adequate Inadequate Not Applicable Comments Below

76. Evaluate other plans as applicable to each particular audit. Impoundment Plans

Adequate Inadequate Not Applicable Comments Below

This limestone quarry included two ponds; one pond is used as a settling pond and the other is used as a fresh water source for the plant. Both ponds are incised and are classified as low hazard.

However, the greater issue appears to be the lack of regulations within MNM requiring plans for impoundments as well as a lack of criteria for the proper construction of impoundments. The Office of Accountability is aware that the Dam Safety Officer and MNM is currently working on such regulations and recommends increased efforts to complete the process.

77. Evaluate the two most current completed E01 (regular) inspection reports (two quarters)

Adequate Inadequate Not Applicable Comments Below

The two most recent E01 inspections indicated a definite improvement over the activities mentioned in Items No. 5 and 29 above. Inspection documentation has improved, and on-site time has increased significantly.

79. Citations, orders, and safeguards issued during previous two quarters

Adequate Inadequate Not Applicable Comments Below

District Field Office Mine ID

80. Determine if 104(d) tracking system is in place at the office being audited, and is being kept up to date

Adequate Inadequate Not Applicable Comments Below

114. Determine if spreadsheets and/or databases provided for tracking of mine visits by supervisors and managers is kept up to date

Adequate Inadequate Not Applicable Comments Below

Although metal/nonmetal supervisors and managers are not required to track their mine visits, the South Central District has established an effective method for tracking these visits.

email when a mine visit is planned, and enters this data onto a spreadsheet. The same process is followed for mine visits. The tracks his own mine visits by entering data into a personal log maintained for that purpose.

115. Evaluate the effectiveness of management's support of, and communication with, inspectors and specialists

Adequate Inadequate Not Applicable Comments Below

District Field Office Mine ID

117. Are MSHA Forms 7000-1 accurately reviewed for proper information and potential violations, unsafe practices, or conditions?

Adequate Inadequate Not Applicable Comments Below

In one instance, the 7000-1 was not properly completed by mine personnel. Section B, which contains the accident code, name of investigator, date of investigation, and steps taken to prevent recurrence of accident, was not completed.

Recommendation - Section B of the 7000-1 form contains important information that the operator must provide, most notably the "steps taken to prevent a recurrence of the accident." 7000-1 forms should be reviewed by the field office upon receipt and appropriate action taken when required information is not submitted.

The operator was informed of this oversight, and is in the process of making corrections.

118. Determine if inspectors have sufficient equipment and supplies to conduct thorough inspections.

Adequate Inadequate Not Applicable Comments Below

There is a two to three month waiting time for calibration of noise dosimeters. Records indicate that noise dosimeters are being shipped, according to an established schedule, for calibration. However, the instruments are not being returned to the district in a timely manner, causing the field offices to reschedule inspection dates and sampling to compensate for a lack of equipment.

According to information from headquarters, a revised calibration submission schedule will become effective on May 01, 2009.

Recommendation - The calibration process should be continuously monitored to maximize efficiency of calibrations and prevent recurrence of this issue.

119. Determine if adequate close-out conferences are being conducted at the end of each inspection.

Adequate Inadequate Not Applicable Comments Below

District Field Office Mine ID

120. Determine if E01 inspections at surface mines includes an observation/ evaluation of blast hole drilling, loading, and blasting operations.
Adequate Inadequate Not Applicable Comments Below

121. Determine if manpower at the field office is sufficient to ensure adequate, complete inspections, investigations, and other activities.
Adequate Inadequate Not Applicable Comments Below

This field office does not have an Office Assistant. The [redacted] must also perform duties relating to incoming and outgoing mail, complaint processing, returning phone calls to operators, etc. These activities detract from [redacted] ability to properly monitor and mentor his subordinates. In [redacted] absence, these duties are shared by inspectors. This has a negative impact on their ability to conduct inspections.

Recommendation - The field office should be allotted an additional FTE for Office Assistant.

United States Department of Labor
Mine Safety and Health Administration
Office of Accountability

District South Central Field Office Dallas, Texas Mine ID [REDACTED]

Mine Citation/Order U.S. Department of Labor
Mine Safety and Health Administration

Section I - Violation Data	
1. Date <u>Mo Da Yr</u>	2. Time (24 Hr. Clock)
3. Citation/Order Number	<u>[REDACTED]</u>
4. Served To	5. Operator
<u>[REDACTED]</u>	<u>[REDACTED]</u>
6. Condition of Practice	7. (Contractor)
	8a. Written Notice (103g)

The outer jacket of the 480 volt cable leading to the motor of the C1 tail pulley was damaged. The electrical cable had an approx 1" gouge that exposed the inner insulated conductors. The gouge was approximately 6' up from a walkway which is traveled approximately two times a day. The damaged cable could expose workers to a shock/burn hazard.

Photos taken

See Continuation Form (MSHA Form 7000-3a)

9. Violation	A. Health <input type="checkbox"/> Safety <input type="checkbox"/> Other <input type="checkbox"/>	B. Section of Act	C. Part/Section of Title 30 CFR	56.12004
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Section II - Inspector's Evaluation

10. Gravity:				
A. Injury or illness (has) (is): No Likelihood <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Reasonably Likely <input type="checkbox"/> Highly Likely <input type="checkbox"/> Occurred <input type="checkbox"/>				
B. Injury or illness could reasonably be expected to be: No Lost Workdays <input type="checkbox"/> Lost Workdays Or Restricted Duty <input checked="" type="checkbox"/> Permanently Disabling <input type="checkbox"/> Fatal <input type="checkbox"/>				
C. Significant and Substantial: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				D. Number of Persons Affected: 001
11. Negligence (check one) A. None <input type="checkbox"/> B. Low <input type="checkbox"/> C. Moderate <input checked="" type="checkbox"/> D. High <input type="checkbox"/> E. Reckless Disregard <input type="checkbox"/>				
12. Type of Action 104a		13. Type of Issuance (check one) Citation <input checked="" type="checkbox"/> Order <input type="checkbox"/> Safeguard <input type="checkbox"/>		
14. Initial Action A. Citation <input type="checkbox"/> B. Order <input type="checkbox"/> C. Safeguard <input type="checkbox"/> D. Written Notice <input type="checkbox"/>			E. Citation/Order Number	
15. Area or Equipment				

16. Termination Due	A. Date <u>Mo Da Yr</u>	B. Time (24 Hr. Clock)
	<u>[REDACTED]</u>	<u>[REDACTED]</u>

Section III - Termination Action

17. Action to Terminate The damaged area was removed and the cable was reattached. The practice of looking for and protecting electrical cables that rub on vibrating structures was discussed with the operator to prevent future

18. Terminated	A. Date <u>Mo Da Yr</u>	B. Time (24 Hr. Clock)
	<u>[REDACTED]</u>	<u>[REDACTED]</u>

Section IV - Automated System Data

19. Type of Inspection (activity code) E01	20. Event Number	21. Primary or Mill P	23. AR Number
	<u>[REDACTED]</u>		<u>[REDACTED]</u>

provisions of the Small Business Regulatory Enforcement Fairness Act of 1996, the Small Business Administration has... enforcement actions. The Ombudsman annually evaluates enforcement activities and rates each agency's responsiveness to small business. If you wish to comment on the enforcement actions of MSHA, you may call 1-888-REG-FAIR (1-888-734-3247), or write the Ombudsman at Small Business Administration, Office of the National Ombudsman, 409 3rd Street, SW MC 2120, Washington, DC 20416. Please note, however, that your right to file a comment with the Ombudsman is in addition to any other rights you may have, including the right to contest citations and proposed penalties and obtain a hearing before the Federal Mine Safety and Health Review Commission.

United States Department of Labor
Mine Safety and Health Administration
Office of Accountability

District Field Office Mine ID

Mine Citation/Order
Continuation

U.S. Department of Labor
Mine Safety and Health Administration



Section I--Subsequent Action/Continuation Data

1. Subsequent Action <input type="checkbox"/> 1a. Continuation <input checked="" type="checkbox"/>	2. Dated (Original Issue) Mo Da Yr [REDACTED]	3. Citation/ Order Number [REDACTED]
4. Served To [REDACTED]	5. Operator [REDACTED] (actor)	

Section II--Justification for Action

Continuation of 17. Action to Terminate
similar hazards.

See Continuation Form

Section III--Subsequent Action Taken

8. Extended To	A. Date Mo Da Yr	B. Time (24 Hr. Clock)	<input type="checkbox"/> C. Vacated	<input type="checkbox"/> D. Terminated	<input type="checkbox"/> E. Modified
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Section IV--Inspection Data

9. Type of Inspection <input type="text" value="E01"/>	10. Event Number [REDACTED]
[REDACTED]	11. AR Number [REDACTED]
[REDACTED]	12. Date Mo Da Yr
[REDACTED]	13. Time (24 Hr. Clock)

MSHA Form 7000-3a, Mar 85 (revised)

United States Department of Labor
 Mine Safety and Health Administration
 Office of Accountability

District South Central Field Office Dallas, Texas Mine ID [REDACTED]

Mine Citation/Order

U.S. Department of Labor
 Mine Safety and Health Administration



Section I--Violation Data

1. Date Mo Da Yr	2. Time (24 Hr. Clock)	3. Citation/ Order Number
4. Served To	(Contractor)	
5. Written Notice (103g)		

The secondary road leading to the MCC at the water crossover had no berms. A two foot drop off exposed equipment operators to injury if they drove off the road. The road was 13 feet wide, tire tracks were observed close to the edge. Pickup trucks and a skid steer travel this road several time a day. Photos taken

See Continuation Form (MSHA Form 7000-3a)

9. Violation	A. Health Safety Other	B. Section of Act	C. Part/Section of Title 30 CFR	56.9300a
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Section II--Inspector's Evaluation

10. Gravity:				
A. Injury or illness (has) (is): No Likelihood <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Reasonably Likely <input type="checkbox"/> Highly Likely <input type="checkbox"/> Occurred <input type="checkbox"/>				
B. Injury or illness could reasonably be expected to be: No Lost Workdays <input type="checkbox"/> Lost Workdays Or Restricted Duty <input checked="" type="checkbox"/> Permanently Disabling <input type="checkbox"/> Fatal <input type="checkbox"/>				
C. Significant and Substantial: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				D. Number of Persons Affected: 001
11. Negligence (check one) A. None <input type="checkbox"/> B. Low <input checked="" type="checkbox"/> C. Moderate <input type="checkbox"/> D. High <input type="checkbox"/> E. Reckless Disregard <input type="checkbox"/>				
12. Type of Action 104a		13. Type of Issuance (check one) Citation <input checked="" type="checkbox"/> Order <input type="checkbox"/> Safeguard <input type="checkbox"/>		
14. Initial Action A. Citation <input type="checkbox"/> B. Order <input type="checkbox"/> C. Safeguard <input type="checkbox"/> D. Written Notice <input type="checkbox"/>				E. Citation/Order Number
15. Area or Equipment				

16. Termination Due	A. Date Mo Da Yr	B. Time (24 Hr. Clock)
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Section III--Termination Action

17. Action to Terminate Berms were built on the road.

18. Terminated	A. Date Mo Da Yr	B. Time (24 Hr. Clock)
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Section IV--Automated System Data

19. Type of Inspection (activity code) E01	20. Event Number	21. Primary or Mill P	23. AR Number
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MSHA Form 7000-3, Mar 85 (revised) In accordance with the provisions of the Small Business Regulatory Enforcement Fairness Act of 1996, the Small Business Administration has established a National Small Business and Agriculture Regulatory Ombudsman and 10 Regional Fairness Boards to receive comments from small businesses about federal agency enforcement actions. The Ombudsman annually evaluates enforcement activities and rates each agency's responsiveness to small business. If you wish to comment on the enforcement actions of MSHA, you may call 1-888-REG-FAIR (1-888-734-3247), or write the Ombudsman at Small Business Administration, Office of the National Ombudsman, 409 3rd Street, SW MC 2120, Washington, DC 20416. Please note, however, that your right to file a comment with the Ombudsman is in addition to any other rights you may have, including the right to contest citations and proposed penalties and obtain a hearing before the Federal Mine Safety and Health Review Commission.



**Safety
is a
Value!**

PROTECTION AGAINST FALLING MATERIALS

The dust and small particles generated by transporting materials via conveyor belts can accumulate on the conveyor belt structure and present a hazard to workers below.

In areas where such materials can present a hazard, guards, shields, or other devices need to be installed to provide protection for persons working or traveling under these conveyors.



BEST PRACTICES

EVALUATE: Identify areas where accumulations of materials on overhead conveyors present the potential for hazards associated with falling materials.

ELIMINATE: Provide shields, guards, or other devices in areas where persons work or travel to protect persons from the dangers associated with falling materials.

Install guards or barricades to prevent persons from entering other areas where dangers associated with falling materials may exist and provide warning signs at these locations.

Develop and implement a program for maintaining overhead conveyors and associated structures free of accumulated materials.

EDUCATE: Include recognition and avoidance of hazards associated with falling materials in your training plan.