



OSHA

REGIONAL NOTICE

U.S. DEPARTMENT OF LABOR

Occupational Safety and Health Administration

DIRECTIVE NUMBER: CPL 2-13-001C

EFFECTIVE DATE: October 24, 2014

SUBJECT: Grain Handling Industry Local Emphasis Program (LEP)

REGIONAL IDENTIFIER: Region VII

ABSTRACT

Purpose: This Notice continues the Local Emphasis Program (LEP) policies and procedures for the purpose of conducting inspections of grain handling facilities within the Omaha Area Office jurisdiction. The employers to be targeted are in the grain handling industry (Standard Industry Code (SIC) codes 2041, 2044, 2048, 4221, and 5153) and North American Industry Classification System (NAICS) 311211, 311212, 311119, 424510 and 493130).

References: OSHA Instructions: CPL 02-01-104, CPL 04-00-001, CPL 02-00-150, CPL 04-00-001, CPL 02-00-025, CPL 02-00-051, NIOSH Publications 83-126, 88-102 and 95-109.

State Impact: None

Expiration: September 30, 2015

Action Offices: Omaha Area Office - Region VII

Originating Office: Kansas City Regional Office

Contact: Enforcement Programs (816) 283-8745

By and Under the Authority of:

Marcia P. Drumm
Acting Regional Administrator

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- I. Purpose. This Notice continues a Local Emphasis Program (LEP) designed to reduce injury, illness, and death rates in the grain handling industry by increasing employers' knowledge in safety and health and promoting safety and health programs through a combination of outreach and enforcement activities.

- II. Scope. This Notice applies to general industry establishments that are covered by 29 CFR 1910.272 within the jurisdictional boundaries of the Omaha Area Office. This LEP establishes OSHA's procedure for programmed comprehensive safety inspections of establishments in Standard Industrial Classification (SIC)/North American Industry Classification System (NAICS) codes 2041/311211 (flour mill products), 2044/311212 (rice milling), 2048/311119 (prepared feed for animals and fowls), 4221/424510 (grain and field bean merchant wholesalers) and 5153/493130 (grain and field beans warehousing and storage), for any grain handling or storage related activities performed at the establishment, pursuant to the provisions contained in the Field Operations Manual (FOM).

- III. References.
 - A. OSHA Instruction CPL 04-00-001, November 10, 1999, Procedures for Approval of Local Emphasis Program (LEPs) and Experimental Programs.
 - B. OSHA Instruction 02-00-150, April 22, 2011, Field Operations Manual (FOM)
 - C. OSHA Instruction CPL 02-00-025, January 4, 1995, Scheduling System for Programmed Inspections.
 - D. OSHA Instruction CPL 02-01-004, November 8, 1996, Inspection of Grain Handling Facilities, 29 CFR 1910.272.
 - E. OSHA Instruction CPL 02-00-051, May 28, 1998, Exemptions and Limitations under the Current Appropriations Act and Change, Appendix A, dated May 27, 2014, or most recent version.
 - F. National Institute of Occupational Safety and Health (NIOSH) Publication No. 83-126, Occupational Safety in Grain Elevators and Feed Mills (1983).
 - G. NIOSH Publication 88-102, Preventing Entrapment and Suffocation Caused by the Unstable Surfaces of Stored Grain and Other Materials (1987).

H. NIOSH Publication 95-109, Safe Grain and Silage Handling (1995).

IV. Action. The Acting Regional Administrator, through the Assistant Regional Administrator for Enforcement Programs, and the Omaha Area Director shall ensure that the procedures outlined in this Notice are followed and adhered to in the scheduling of programmed inspections of grain handling facilities.

V. Expiration. This LEP will expire September 30, 2015, and may be renewed based on the program's evaluation at that time.

VI. Background.

The hazards associated with grain handling facilities are well recognized. Employees are exposed to the potential of fires and explosions, and other significant hazards such as falls, grain bin entry, and rail car handling operations. In the late 1970s and early 1980s, OSHA implemented National Emphasis Programs covering grain handling facilities in order to focus its resources on these hazards. These programs have since been canceled. The Omaha Area Office has determined that a renewed OSHA enforcement presence is warranted due to continuing incidences of fatalities and injuries in these facilities.

According to the National Institute for Occupational Safety and Health (NIOSH, 1995), suffocation under silage or grain was the leading cause of grain-handling fatalities between 1985 and 1989. Grain handling machinery is the second largest cause of farm machinery-related deaths and often causes severe disfiguring injuries and amputations (NIOSH, 1995). Falls from machinery and structures were the second most common cause of grain and silage handling fatalities between 1985 and 1989 (NIOSH, 1995). The grain handling industry also has confined spaces (entry into bins, silos, tanks, and other storage structures) and toxic atmospheres created by the decomposition of stored grain.

Nationally, OSHA has determined a renewed focus on grain industries is necessary. Due to the hazardous nature of the grain industry and the fatalities that occurred during 2009, the Assistant Secretary for OSHA mailed letters to grain handling facilities in the United States warning those employers not to allow workers to enter grain storage facilities without proper equipment, precautions and training. In 2010, at least 26 U.S. workers were killed in grain engulfments, the highest number on record.

According to the latest available U.S. Department of Labor Bureau of Labor Statistics, in 2012 the nationwide Total Case Incident Rate (TCIR) for Private Industry was 3.4. The TCIR for NAICS group 31121X was 6.4 (88% higher than all private industry). The TCIR for NAICS group 31111X was 4.0 (18% higher than all private industry). The TCIR for NAICS group

4245XX was 3.8 (12% higher than all private industry). The TCIR for NAICS group 4931XX was 5.5 (62% higher than all private industry).

Most Nebraska industry is related to agriculture, and Nebraska's primary agricultural crop is corn. According to the U.S. Department of Labor Bureau of Labor Statistics, in Nebraska in 2012 the Total Case Incident Rate (TCIR) for Private Industry was 3.9. The TCIR for NAICS group 3111XX was 7.7 (97% higher than all private industry). The TCIR for NAICS group 4245XX was 6.7 (72% higher than all private industry). The TCIR for NAICS group 493XXX was 7.5 (92% higher than all private industry). Between FY 2004 and FY 2014, the Omaha Area Office investigated at least 25 accidents involving grain or feed storage or handling. Nineteen (19) of these incidents resulted in death. About 20% of the Omaha Area Office investigated fatalities between FY 2004 and FY 2014 (98) were related to grain-handling industries.

- VII. Procedures. The following procedures will be utilized to notify affected employers about the program and to implement enforcement activity.
- A. Outreach. The Omaha Area Office has worked with the Nebraska Grain and Feed Association (NGFA) and Nebraska Workforce Development 21(d) OSHA Consultation Project to provide outreach to affected employers. This will continue to be performed through newsletter articles, e-mail updates, presentations and other sources identified throughout the year. The Omaha Area Office has used the OSHA National Office mailing list to notify employers within the state of the LEP and provide resources to assist with the elimination of known hazards in the grain industry.
- B. Targeting/Selection. Inspections conducted under this program shall be scheduled and conducted pursuant to the following criteria. Inspections shall concentrate on grain handling establishments as defined by 29 CFR 1910.272(b). Following is a list of sources for obtaining information which were used to develop a roster from which inspections are to be conducted.
1. The following SIC/NAICS codes list the industries within the State of Nebraska that are covered by 29 CFR 1910.272: Standard Industrial Classification (SIC)/North American Industry Classification System (NAICS) codes 2041/311211 (flour mill products), 2044/311212 (rice milling), 2048/311119 (prepared feed for animals and fowls), 4221/424510 (grain and field bean merchant wholesalers) and 5153/493130 (grain and field beans warehousing and storage).

NOTE: Small employers with fewer than ten employees in SIC/NAICS codes that are listed in OSHA Instruction CPL

02-00-051 as exempt from programmed OSHA safety inspections will not be inspected. Area Office staff will consult the appropriation riders each fiscal year for exempt employers in any given SIC/NAICS code. However, other establishments with fewer than ten employees are to be included in this program.

2. A listing of establishments within the above SIC/NAICS codes was provided by OSHA's Office of Statistics based on Dun & Bradstreet information for the office's area of jurisdiction. Establishments included on the OSHA National Office mailing list for grain facilities were added to the listing of establishments. In addition, the Cooperative Council of Nebraska provided a listing for some of their members, which was used to update the information contained in the Dun & Bradstreet listing. Additionally, the following documents were used to identify grain handling locations in Nebraska: Burlington Northern Santa Fe Grain Elevator Directory (2010); Union Pacific Grain Elevator Directory (Individual sites updated as they change); and the EPA Enforcement & Compliance History Online (ECHO) have been searched for the specific SIC/NAICS codes and those sites added to the master list. The Internet has been searched for company names on the master list. If the company had a website with location listings, the website was used to add any additional sites listed on the company website.
3. Establishments that had a comprehensive safety or health inspection within the past 36 months were removed from the list prior to initiating inspections in inspection cycles. Deletion criteria in OSHA Instruction CPL 02-00-025, Scheduling System for Programmed Inspections, Paragraph B.1.b.(1)(b)6.d., was applied to the list of establishments with the exception of deletion criteria H#, S# and T#.
4. Each establishment remaining on the list was placed in alphabetical order. A cycle consisting of ten (10) establishments will be randomly selected by using the most current version of Microsoft Excel's Random Sample Function, i.e., RANDBETWEEN function in Microsoft Excel. To prevent duplicate random numbers from being generated for multiple records each time the file is opened, the entire worksheet is highlighted, copied, and pasted into a blank worksheet as "Values (V)". The new worksheet will have each random number saved as a value not a formula, which will allow the worksheet to be opened without the possibility

of changing the already assigned random numbers. Once the establishments are selected, deletions will be made pursuant to the deletions policy set forth in paragraph VII. B. of this directive. Subsequent cycles shall be generated in the same manner. Each inspection cycle must be completed before another cycle is generated from that list. An establishment may be carried over to another cycle for any of the reasons set forth in CPL 02-00-025, paragraph B.1.b.(1)(e).1.

5. All compliance personnel shall be instructed to be on the lookout for grain handling worksites. Every observation of such operations shall be handled as follows:
 - a. Regardless of whether or not a violation is observed, whenever a CSHO sights or receives any other notice of a grain handling worksite (including non-formal complaints, other government agency referrals, and reports from members of the public) the CSHO shall:
 1. Make note of the state and condition of the work operation insofar as it is known, including any apparent serious hazards. A hazard is determined by OSHA to be serious if there is substantial probability that death or serious harm could result from an existing condition, or from one or more practices, means, methods, operations, or processes which have been adopted or are in use.
 2. Note the company name and address or location of the worksite, if known.
 3. Contact the Area Office supervisor for a decision as to whether an inspection is required.
 - b. All grain handling worksites brought to the attention of the Area Office shall be inspected as follows:
 1. If the worksite has been inspected within the last 3 years, no inspection is necessary unless the current observations of the CSHO indicate serious hazard(s).
 2. If the worksite has not been inspected within the last 3 years, an inspection shall be conducted.
 - c. Complaint, referral, fatality, catastrophe and follow-up inspections will be handled according to the FOM. Unprogrammed inspections of establishments identified in Paragraph VII.B. above will be expanded to include the

issues addressed by this program. An inspection scheduled under this LEP does not necessarily need to be inspected by the compliance personnel making the original observation.

6. **Deferral:** Many small grain handling facilities, e.g., cooperatives, are purchased by larger entities, which begin implementing improved safety and health programs. If such an entity voluntarily provides the Omaha Area Office with the date and specific location of such a purchase, that specific-purchased location will be deferred from receiving a programmed inspection described in this directive for establishments selected in accordance with paragraph VIII.B. The deferral will remain in effect for a period of 90 calendar days from the date of the purchase. However, complaint, referral, fatality, catastrophe and follow-up inspections will continue to be handled according to the FOM.

C. Inspection Procedures.

1. Inspections will be conducted in accordance with CPL 02-00-051, Enforcement Exemption and Limitations under the Appropriation Act, and shall be conducted in accordance with provisions of the FOM.
2. All programmed inspections will be comprehensive safety inspections and will comply with guidelines established in OSHA Instruction CPL 02-01-004, Inspection of Grain Handling Facilities. All inspections will include an evaluation of hazards related to grain handling. Special attention will be paid to fall, auger entanglement, combustible dust explosion/fire, electrical, engulfment and struck by hazards. If a safety CSHO identifies a health hazard, such as ammonia exposure or noise exposure, during the inspection, a health referral will be made, and when possible, a single inspection will be conducted to address the unprogrammed event as well as to conduct an inspection described in this program for establishments selected in accordance with paragraph VIII.B. If a cross-trained CSHO to address both safety and health hazards is not available, the Area Director may allow joint safety and health inspections to be conducted simultaneously.
3. Unprogrammed events such as fatalities, catastrophes, complaints, follow-up inspections and referrals shall be scheduled for inspection in accordance with existing

procedures outlined in the FOM. When possible, a single inspection will be conducted to address the unprogrammed event as well as to conduct an inspection described in this program for establishments selected in accordance with paragraph VIII.B.

4. When an inspection is not conducted because the employer has refused entry, a warrant shall be sought in accordance with procedures in the FOM.

VIII. Recording in OIS.

- A. Inspections that are targeted as a result of this LEP will be coded as "GRAIN" on the Inspection tab/Inspection Type tab under Local Emphasis Program and as Programmed Planned on the same tabs under Initiating Type.
- B. Inspections that are conducted as a CSHO referral and inspected during the current inspection cycle will be coded as "GRAIN" on the Inspection tab/Inspection Type tab under Local Emphasis Program and as Programmed Related on the same tabs under Initiating Type.
- C. Inspections that are conducted as a result of a complaint, referral by another agency, or fatality/catastrophe will be coded as "GRAIN" on the Inspection tab/Inspection Type tab under Local Emphasis Program and the appropriate unprogrammed activity on the same tabs under Initiating Type.
- D. Where "program related" inspections are conducted, they will be so indicated on the Inspection tab/Inspection Type tab.
- E. All consultation activities (requests, visits and compliance assistance) conducted at establishments in the SIC/NAICs codes, included in this LEP will be coded with "GRAIN" in the Local Emphasis Program field on the appropriate forms.

- IX. Evaluation. The Omaha Area Office shall collect data relevant to the effectiveness of this program and submit it to the Regional Office at the end of each fiscal year (no later than October 30). At a minimum, the evaluation should respond to the requirements of OSHA Instruction CPL 04-00-001, Procedure for Approval of Local Emphasis Programs and Experimental Programs, Paragraph G.4. Evaluations.



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10/24/14
Date

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Office of the Solicitor Concurrence
U.S Department of Labor
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10/23/14

Date

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