

ENGINEERING STANDARDS COMMITTEE

E. I. du Pont de Nemours & Co. (Inc.)

Wilmington, Delaware 19898

1358

OSHA REGULATIONS AND FORK LIFT TRUCKS

"Do we have to install the safety features covered by OSHA on our existing fork lift trucks?" "If so, what are they, when must we install them, must they be approved, and by whom?" "What about new trucks — will they meet the OSHA regulations?" These are the kinds of questions being asked today.

The May 1972 issue of Engineering Standard, V3A, Overhead Guards for Industrial Lift Trucks, and the June 1972 issue of Standard Engineering Specification, SV2A, Powered Lift Trucks, include the safety features shown in OSHA along with recommendations considered important for the application of Du Pont safety philosophy to lift truck design and operation. These standards were developed from ANSI B56.1, Safety Standard for Powered Industrial Trucks, and ANSI B56.2, Powered Industrial Trucks, Type Designations, Areas of Use, Maintenance and Operation (also NFPA-505) which have been adopted by OSHA. Standard V3A and Specification SV2A must be followed when ordering new or modifying existing fork lift trucks to assure they meet Du Pont safety requirements.

As discussed in SV2A, OSHA requires that modifications made after August 27, 1971 to new or existing trucks which affect capacity and safe operations be made only with truck manufacturers prior written approval. Capacity, operation, and maintenance instruction plates, tags, or decals

must be changed accordingly. Effective on February 15, 1972, the following additional OSHA regulations included in SV2A apply to new or existing trucks:

- All highlift trucks must be provided with overhead guards as protection against falling objects. The guard is intended to offer protection from falling boxes, packages, bagged material, etc., but not to withstand the impact of a falling capacity load.

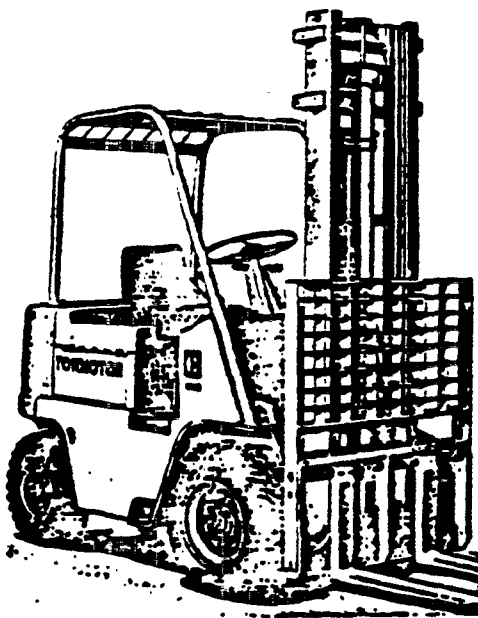
- All highlift trucks must be provided with load backrest extensions if there is a possibility that the load or a part of it could fall backward.

- All trucks used in hazardous areas must be at least the minimum type outlined in NFPA Standard 505.

OSHA regulations also state that all new lift trucks acquired and used after February 15, 1972 must comply with ANSI B56.1. These trucks must be "approved" and labeled by a nationally recognized testing laboratory such as Underwriter's Laboratory or Factory Mutual Engineering Corporation.

Answers to most of the questions on lift trucks can be found in either V3A or SV2A. However,

if you can't find your answers there, please contact either K. E. Finger, Standards Section, Louviers (8-121-3875) or L. W. Edwards, ESD, Louviers (8-121-3629). For other questions on the interpretation of OSHA regulations or policies contact your S & F Protection Division Consultant.



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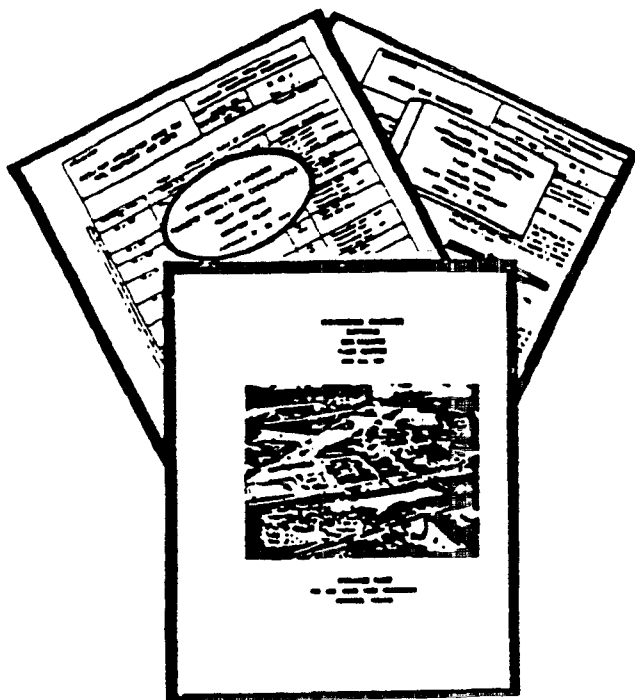
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Subcommittee Meetings at Plant Sites

During the past several years, many Engineering Standards Subcommittees have held their meetings at various Company locations. These range in scope from a simple one day meeting attended by the subcommittee and local interested plant personnel, to a two-day symposium with a wide range of subjects discussed and attendance from many plants throughout the region.

In every case, participants have enthusiastically endorsed the accomplishments attained. The meetings and discussions afford an opportunity for extensive interchange of firsthand information and experience among plants and industrial departments.

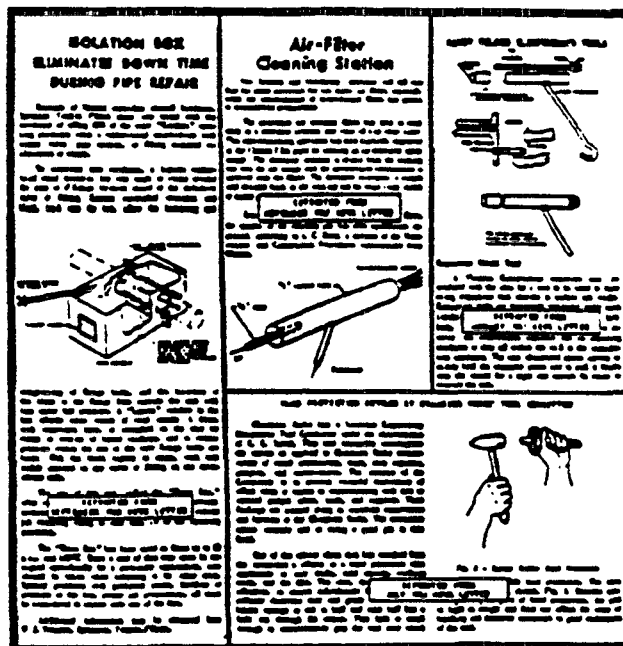
The Standards Section coordinates the preparation and execution of such meetings, always with the participation of the plant and industrial department involved. We would be glad to discuss holding such a meeting at your plant site. Contacts can be made through any subcommittee members at your location, your plant standards coordinator, your departmental representative on the Engineering Standards Committee, or any member of the Standards Section.

- WANTED - YOUR IDEAS

Since the News Letter was first issued in April 1950, many articles have been published on solutions to plant problems — some of these are shown on the right.

The News Letter, with a circulation of approximately 5,000, can be used to share your ideas with others who may have similar problems. Please take time in your busy schedule to record your solution, have a few pictures taken, and send them on. We look forward to hearing from you — the reader. Your solution may be the one that can save the Company many dollars.

If you have questions, contact your Plant Standards Coordinator — his name can be found on page 5 of the Alphabetical Index — or contact W. R. Hitchens, Editor at Lanviers, 6-121-2816.



Billy-Guyed Stacks Revised

Recently, a failure occurred in a $\frac{7}{16}$ " diameter steel strand guy wire at the field-fabricated termination where the strand was bent around a thimble. Terminating steel strand by bending around a thimble should be discontinued until the cause of the failure has been determined. If steel strand is used, it should be terminated by using open strand sockets.

Terminations requiring thimbles for steel strand have been deleted from Billy. The use of preformed guy grips has also been suspended pending investigation. The terminations for wire rope are acceptable as shown in the standard.

The A&C Section, Design Division, Engineering Department, has initiated a test program to determine the cause of failure. All plants having stack guys of steel strand with thimble and clip or preformed guy grip terminations should make a visual inspection of the cable termination for damage. Any that are found defective should be replaced using the socket method. Consultation on stack guy problems or inspection should be referred to the appropriate A&C Section Supervisor. It would be appreciated if all stack guy failures were reported to A&C Design.

Other minor revisions have been made to Billy for clarification. When the testing program is completed, the standard will be reviewed and, if appropriate, use of the deleted terminations for steel strand will be reinstated.

Where We Are - Asbestos Insulation Substitutes

In April 1972, Code 502, Insulating Cement and Code 502.1, Insulating and Finishing Cement were revised to include only asbestos-free materials (see SN500M). Included in the May 1973 issue was a revision to Engineering Material Specification, SN100M, Preformed Block and Pipe. This specification now includes only asbestos-free inhibited and uninhibited calcium-silicate insulation for Codes 102 and 102.1. The manufacturers' new materials were validated by the Process Insulation Subcommittee after on-site evaluation and extensive testing at the Engineering Test Center.

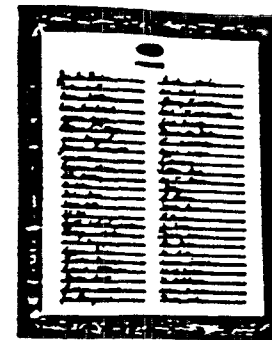
Suitable asbestos-free replacement products for Code 130, Asbestos Board and Code 715, Asbestos Cloth are under development by manufacturers and are being reviewed and tested by the Company. The replacement of these two products will eliminate all of the materials in the insulation standards which could create an asbestos dust problem.

STANDARDS ISSUED IN JULY
INCLUDING OSHA PROVISIONS

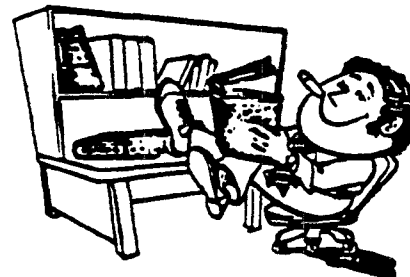
B225, B9Y, DE10C, S24B, S5G, SW30.5W, SW20.22W



Our "Old Friend"
Billy
July 1972



April 1959 - that's when our "old friend" first appeared in the News Letter. Since that time, he has been busy keeping up with the developments in the standards that have occurred in these past 14 years. This will be his last appearance. He retires with this issue.



In keeping with the times, he is being replaced by two young men - both eager to learn and to absorb all of the information covered by the standards. They will appear from time-to-time in the News Letter - discovering that -

It's in the Standards

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STANDARDS ISSUED IN JULY

The July issue comprises 6 new, 47 revised, 2 reaffirmed, and 8 canceled standards. (New standards are shown in *lies*.)

ARCHITECTURAL

B91C reaffirmed
B94C minor rev; standard reaffirmed
B82D 2.1.2.1 and Table 1 minor rev

CONCRETE

B225 Figure 2, 3, section C-C rev and OSHA note added
DB8P division, method, and example rev

TIRES

B9Y section 8.8 split plate dimension rev
B11Y strand terminations and minor rev to update

PLUMBING

S82.1B8 Scope, 2, and minor rev to update

STEEL

C1K minor rev; standard reaffirmed
SC1W 3.1, 2, 9.1, 9.3 rev

ELECTRICAL

SE67B two-way radio; superseded SV1V
SE68B closed-circuit television; superseded SV2V
DE10C SNM cable picture rev
DE4H 4.1 formula corrected

PROCESS EQUIPMENT

Figures 1 and 2 rev
reference to DY3A added
G4B 4.1, 4.2, Figure 1 rev; 2.3 (refer to DY3A) added
G7B same rev
SC5H 1.3, 2.6, 2.12, 4.2 rev; 2.4.3 deleted
SC772S 4.2, 5.1 (new gasket information) rev; 4.5 added

HEATING AND VENTILATING

H9J square shaft damper added
H12J square shaft damper added
H24J rectangular damper quadrants rev
H4X access doors for ducts and casings, high pressure

ENVIRONMENTAL

J3C 4.2, 5.1, 5.3, Figure 1 rev; 4.6 added
J11D centrifugal compressor noise considerations

POWER

K9A minor rev to update; standard reaffirmed
K12C Table 1 and 3, Figures 1 and 2 rev
K1F reaffirmed

LUBRICATION

D11B minor rev to update; standard reaffirmed

MACHINE DESIGN

M2K hardness testing of metallic materials

THERMAL INSULATION

SN104D canceled; material no longer available
SN505I 502 and 502.1 rev; 504 added
SN700M updated Codes, added Code 741

ARMOR

P12B P12B-1 and same rev
P1F 2.5, 3.8.2, 4.2.1 rev; vendor chain hangers
Figures 4A, 4B, 4C, and 4D added
P2V Figure 5 added; same to Figures 4 through 6 rev

INSTRUMENT

R111T temperature transmitter mountings
SR7T OD rev
SR11T Table 1 and other minor rev

SAFETY

S24B 2.2.2, 2.6.1.1, 3.1.3, 4.3, 4.5.1 rev; table and Figures 1, 9, and 10 deleted
SSC 1, 2, 4, Table 1 rev; OSHA provisions added
S12C general rev
S17C 2.2, 4.1 rev; 4.3, 4.4 added

MATERIALS HANDLING

SV1V revised, superseded by SE67B
SV2V revised, superseded by SE68B

MATERIALS OF CONSTRUCTION

SW20.5W security maintenance and ref rev, OSHA provisions section 2 added
SW20.22W Scope - rev security maintenance, updated references; new section 2 OSHA added

MISCELLANEOUS EQUIPMENT

DY1S 1 through 5, 11, 19, and Figure 2 rev; 19.6.2 deleted

PROTECTIVE COATINGS

SZ2D coating systems updated
SZ3D new paint systems added
SZ1E updated coating list

CHEMICAL PROCESS

DC23B 3.1 rev, minor rev, Figure 4 added
DC61B Nomenclature in 10.2, 10.3, 11.2 rev

MAINTENANCE AND CONSTRUCTION PROCEDURES

PP 18 warning on flammable area hazard added; same rev
PP 22 minor rev to update
PR 11 revised, insufficient use
PR 12 revised, insufficient use
PR 13 revised, insufficient use
PR 27 revised, insufficient use
PR 29 revised, insufficient use
PR 60 new format reaffirmed
PZ 101 ref sources rev

Abbreviations above: Ref - reference, Rev - revised or revision

STANDARDS UNDER DEVELOPMENT

Circulated on Serial Letters last month to Engineering Standards Committee for comment. Tentative copies are available upon request. (Requests for tentative Design Standards are considered only when accompanied by reasons for use and countermeasures by supervision or persons familiar with security measures.)

HEATING AND VENTILATING

H1.1J rectangular duct fabrication, negative pressure - 2 to 3V; inches water gauge
DH3D building ventilation principles

MISCELLANEOUS EQUIPMENT

DY6S rectangular gasketed joints

THE "NEWS LETTER" IS DISTRIBUTED TO ALL STANDARDS BOOK HOLDERS, AND IS SPONSORED BY THE ENGINEERING STANDARDS COMMITTEE, ROBERT L. KLAUSMEIER, CHAIRMAN
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