

SAFETY AND HOUSEKEEPING
ACTION COMMITTEE

SHAC

PLAINTIFF'S EXHIBIT

MON-1288

J. J. Burkett
J. F. Carlisle

42D
OA-4

J. A. Glass
W. L. Riddick

0-22
1Z

C. E. Scott
R. L. Stuart

1R-2
0-18

ACTION REQUEST

A. J. Bolton -- 1D
R. J. Burkett -- 42D
J. B. Cook -- 0-13
W. R. Johnson -- OA-7
J. L. Kilfoy -- PEL
H. M. Lacy -- OA-3
W. H. Lane -- 2R-5
G. Lunsford -- 0-21
R. L. Maute -- 1R-16
G. A. Orum -- SS-15
M. L. Owens -- OA-11
J. L. Rasmussen -- 0-6A
R. Rosenberg -- OA-2
T. J. Shuff -- 2R-24
G. L. Stacy -- 0-11
R. L. Stuart -- OA-2
J. M. Tissue -- 0-4
W. H. Triplett -- 35LD
G. L. Tromblee -- OA-10

cc: G. W. Bostick -- OA-15
P. E. Brubaker -- 0-10
J. Clark -- 0-7
G. A. Danner -- 0-7
G. W. Daues -- 0-5
W. C. Fuller -- 0-9
W. G. Juhl -- OA-9
C. M. McCullough -- 0-12
D. W. Metten -- OA-19
G. T. Ryan -- 0-10
J. E. Trafton -- 0-9

SC

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LAM004576

Monsanto

FROM (NAME & LOCATION) R. L. Stuart

DATE May 16, 1977

CC

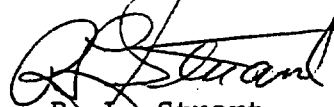
SUBJECT ELECTRICAL TRACING SURVEY

REFERENCE

TO :

In February a SHAC notice was issued highlighting a potential problem with "MI" electrical tracing cable. This cable very closely resembles copper tubing and if inadvertently cut it could expose an employee to as much as 480 v. A much more preferred installation is Chemelex Cable which resembles TV antenna cable.

To determine the extent of the "MI" cable hazard, SHAC is requesting information from across the plant. To assist us with this please complete the form below and return it to me by June 10.


R. L. Stuart
Chairman
SHAC Committee

ELECTRICAL TRACING REPLY

Survey Completion date _____.

Is Electrical Tracing used in your area _____.

Is the tracing sufficiently identified _____.

Approximately how many feet of tracing is involved _____.

How many applications of "MI" Cable in your area _____.

Approximately how many feet of "MI" tracing is involved _____.

Do you have plans to replace the "MI" Cable _____.

RLS/es
Enclosures

Signed

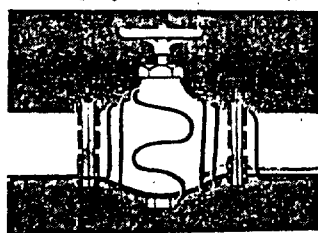
SC

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A.I.A. No. 30-A-2

MINIMUM BENDING RADIUS IS
6 TIMES DIAMETER OF CABLE



CHROMALOX[®] TYPE MI ELECTRIC HEATING CABLE

FOR EFFECTIVE WINTERIZING,
PROCESS PIPE HEATING



A product of EDWIN L. WIEGAND COMPANY, 7500 Thomas Boulevard, Pittsburgh, Pennsylvania 15208
Sales Engineering Representatives in Principal Cities

CHROMALOX electric heating elements • packaged process heaters and systems • comfort heaters
electric steam generators • infrared heaters and ovens • power cables • controls

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A.I.A. No. 30-A-2

Table 310-13 (Continued)

Trade Name	Type Letter	Max. Operating Temp.	Application Provisions	Insulation	AWG or MCM	Thickness of Insulation Mils	Outer Covering
Extruded Polytetrafluoroethylene	TFE	250°C 482°F	Dry locations only. Only for leads within apparatus or within raceways connected to apparatus, or as open wiring. (Nickel or nickel-coated copper only.)	Extruded Polytetrafluoroethylene	14-10 8-2 1-4/0	20 30 45	None
Thermoplastic and Asbestos	TA	90°C 194°F	Switchboard wiring only.	Thermoplastic and Asbestos	14-8 6-2 1-4/0	Th'pl'. 20 25 30 Asb.	Flame-retardant, nonmetallic covering
Thermoplastic and Fibrous Outer Braid	TBS	90°C 194°F	Switchboard wiring only.	Thermoplastic	14-10 8 6-2 1-4/0	30 45 60 80	Flame-retardant, nonmetallic covering
Synthetic Heat-Resistant	SIS	90°C 194°F	Switchboard wiring only.	Heat-Resistant Rubber	14-10 8 6-2 1-4/0	30 45 60 80	None
Mineral Insulation (Metal Sheathed)	MI	85°C 185°F 250°C 482°F	Dry and wet locations. For special application.	Magnesium Oxide	16-10 9-4 3-250	36 50 55	Copper

Table 310-13 (Continued)

Underground Feeder & Branch-Circuit Cable-Single Conductor. (For Type UF cable employing more than one conductor see Article 339)	UF	60°C 140°F 75°C** 167°F	See Art. 339	Moisture-Resistant Moisture- and Heat-Resistant	14-10 8-2 1-4/0	*60 *80 *95	Integral with insulation
Underground Service Entrance Cable-Single Conductor. (For Type USE cable employing more than one conductor see Article 338)	USE	75°C 167°F	See Art. 338	Heat- and Moisture-Resistant	12-10 8-2 1-4/0 213-500 501-1000 1001-2000	45 60 80 95 110 125	Moisture-resistant non-metallic covering See 338-1 (2)
Silicone-Asbestos	SA	90°C 194°F 125°C 257°F	Dry locations. For special application.	Silicone Rubber	14-10 8-2 1-4/0 213-500 501-1000 1001-2000	45 60 80 95 110 125	Asbestos or glass

* Includes integral jacket.

** For ampacity limitation, see 339-1(a).

The nonmetallic covering over individual rubber-covered conductors of aluminum-sheathed cable and of lead-sheathed or multiconductor cable shall not be required to be flame retardant. For metal-clad cable, see Section 334-4. For nonmetallic-sheathed cable, see Section 336-2. For Type UF cable, see Section 339-1. For aluminum-sheathed cable, see Section 331-23.

For insulated, aluminum and copper-clad aluminum conductors, the minimum size shall be No. 12. See Tables 310-18 and 310-19.