City of San Angelo 72W College Ave 2nd Floor San Angelo TX 76902

TAILGATE/TOOLBOX SAFETY TRAINING

Safety Services Company-Safety Meeting Division,

#	187108
5	SAFETY SERVICES COMPANY

San Angelo 1A 70902				PO BOX 6408 YUMA, AZ 83366-6408 TON Free (866) 204-4786
Job Name:		1753000000000000000000000000000000000000	and the second s	Job Site Location:
Date:				Foreman/Supervisor:
	Topic	: 296: E	Electrical	Hazards (Working Spaces)
Introduction: Worki	ng spaces around ele	ectrical equipm	ent must be pro	ovided with sufficient access and maintained to permit
				n, adjustment, servicing, or maintenance. These spaces
				ned from energized parts and equipment which may
				trical working spaces:
				tion of access to live parts which will require
	nent, servicing, or ma			
	Minimu	ım Clear Distanc	e in Feet	Condition
	ound Condition (1)		. ,	1) Exposed live parts on one side and no live parts or grounded parts on the other
0 – 150 V	3	3	3	side of the working space, or exposed live parts on both sides effectively guarded
150 – 600 V 601 – 2500 V	3 3	3.5 4	4 5	by suitable wood or other insulating materials. Insulated live or insulated bus bars operating at not over 300 volts to ground will not be considered live parts.
2501 – 9000	4	5	6	2) Exposed live parts on one side and grounded parts on the other side. Concrete,
9001 – 25,000 V	5	6	9	brick, or tile walls will be considered as grounded.
25,001 - 75 kV	6	8	10	3) Exposed live parts on both sides of the workspace (not guarded as provided in
Above 75 kV	8	10	12	Condition 1) with the operator in between.
Distances must	t be measured from the	he live parts if	they are expose	ed, or from the enclosure front or opening if the live parts are enclosed.
The width of w	orking spaces in fro	ont of the electr	ric equipment n	nust be the width of the equipment, or 30 in. whichever is greater. In all cases the
				nent door or hinged panel.
Working space	e is not required in b	back of assemb	lies such as dea	ad-front switchboards or motor control centers where there are no renewable or
adjustable parts	such as fuses or swit	tches on the ba	ck and where a	ll connections are accessible from locations other than the back.
Working space	may not be used for	storage. When	n exposed for in	aspection or servicing, normally enclosed live parts, if in a passageway or general
open space mus	t be suitably guarded	l.		
				access to the working space about electric equipment.
Lighting must	be provided for all w	orking spaces	about service e	quipment, switchboards, panelboards, and motor control centers installed indoors.
The minimum	headroom of working	ng spaces abou	t service equip	ment, switchboards, panelboards, or motor control centers is 6 feet 6 inches.
All switchboar	ds, panels, distribution	on boards, and	motor control	centers must be located in dedicated spaces and protected from damage.
 Outdoor electr 	ical equipment mus	t be installed in	n suitable enclo	sures and must be protected from accidental contact by
				e from piping systems.
				ng at 50 volts or more must be guarded against accidental
				, or by any of the following means:
				lcony, or platform that is accessible only to qualified persons.
				that only qualified persons will have access to the space.
	on of 8 feet or more			
				shysical damage, enclosures or guards must be placed to prevent damage.
				ust be marked with conspicuous warnings forbidding unqualified persons entry.
				t over 600V nominal, must be constructed with enough structural strength for the
	arry and have a mini			
				personnel must have metal-enclosed equipment. Electrical installations
				ple only to qualified personnel.
				width, there must be one entrance at each end of the equipment.
Unguarded live	e parts above workir	ng space must l	be maintained a	at elevations not less than: 601-7500V_9ft.,

 $7501-35,000V_{9}$ ½ ft., over $35kV_{9}$ ½ + 0.37in. per kV. Since low voltage and high voltage equipment have several differing requirements for working space, if equipment is

located in the same enclosure, it must be suitably separated and conspicuously marked to differentiate voltages. Conclusion: Electrical energized equipment is a contact hazard at all times. Allowing proper safe distances in which to work will help to minimize

hazards from arc faults. All equipment must be properly marked for arc flash hazards to safeguard personnel who work in areas with electrical hazards. Work Site Review

	work Sile Keview			
Work-Site Hazards and Safety Sugg Personnel Safety Violations:	gestions:			
Employee Signatures:	(My signature attests and verifies my understanding of and agreement to comply with, all company safety policies and regulations, and that I have not suffered, experienced, or sustained any recent job-related injury or illness.)			
Table Control				

These guidelines do not supercede local, state, or federal regulations and must not be construed as a substitute for, or legal interpretation of, any OSHA regulations.