



SAFETY TAILGATE MEETING

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Company	Positive Electric Co.	Project	Secaucus Solar		
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MASONRY AND CONCRETE SAWS SAFETY

INTRODUCTION

Masonry saws are used to cut tiles, bricks, and blocks of stone, concrete, and other materials. Concrete saws are used to cut channels or openings through concrete blocks, slabs, and walls. Both types of saws can be hand-held, mounted on a stand, or wheeled by hand or motor and may be powered by electricity, compressed air, or fuel. Working with saws can expose workers to hazards such as cutting blades, kick-back, push-back, pull-ins, and dust; training and proper work practices are the key to safety.

Workers require training on the safe use of masonry and concrete saws. Cutting blades should be the correct size, installed properly, guarded at all times, and speed should not exceed the manufacturer's suggested revolutions-per-minute (RPM). Workers should use the correct blade for the job and inspect it for defects before each use. Saws should be maintained and kept clean from dust build-up. Workers using concrete and masonry saws should always ensure that there are no gas or electric utility lines embedded within their cutting zones.

In this meeting, we will discuss

(1) Dangers of Saws

(2) How to Use Saws Safely

(3) Conclusion

DANGERS OF SAWS

Saws pose kick-back, push-back, and pull-in dangers if they cannot run freely through the cutting material. Blades are designed to go in a straight line; crooked or off-line cuts can cause blades to pinch or bite into the material and jam. Though a blade may be jammed, the running motor builds up power and can cause a worker to lose control of the saw and become exposed to the cutting blade. Loss of control includes kick-back where the saw thrusts up and backward, push-back where the saw thrusts straight back, and pull-in where the saw pulls the worker in toward the blade.

Hand-held saws pose special dangers if kick-back occurs because the worker can lose control and drop the saw. Hand-held saws should never be used over shoulder height or on ladders and stepstools. Saw push-back at a height could cause a worker to fall. If elevated cutting work is required, the saw should be mounted on guide tracks for the job. Walls and bricks that are cut should be supported so they do not fall and pinch the blade or crush workers.

HOW TO USE SAWS SAFELY

Mounted saws should be kept on firm, flat surfaces for stability. Workers should keep their hands clear of the cutting blade while holding materials firmly against the backstop. Conveyor surfaces should be free of debris that could cause products to slip and pinch the blade. Longer materials should be supported by scaffolds to prevent blade pinching.

Walk-behind saws keep the worker more removed from the cutting blade. These saws should be guided in a straight line with several passes for each cut. Workers should not push against the saw; this could cause the blade to jump or climb out of the cutting path and the operator could lose control.

Personal protective equipment (PPE) for masonry and concrete saws varies depending on the job task, but may include hard hats, boots, safety glasses and face shields, hearing protection, gloves, and respiratory protection from hazardous dusts.

CONCLUSION

Silica dust is created by concrete and masonry saws. It is a serious health hazard. Repeatedly breathing too much of this dust can eventually lead to silicosis and other diseases. The dust can be a hazard not only to the saw operator, but also to other workers in the area. OSHA requires the Table 1 standard for silica control be consulted and engineering controls used when using a concrete and masonry saw.

These systems use the application of water or local exhaust ventilation to reduce the amount of airborne dust generated. In addition, employees and supervisors must be trained on the health hazards of the dust, the methods used by the employer to control employee exposures, and some related topics. This training must be conducted at least annually. If overexposures to dust occur because dust reduction systems are not used or because such systems do not sufficiently control exposures, respirators or other control measures are required. For more guidance, consult with an industrial hygienist or other safety and health professional.

Attendees Names

Attendees Signatures

Mike Nicastro



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CONDUCTOR SIGNATURE

