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Noise Level Nomitoring:TX3 AMS Air Mover

Sound level Readings were requested to re-assess the noise level generated by the TX3 AMS Air Mover at Texas Pneumatic Tool under open conditions to eliminate possibility of room reverberation on April 30,. 1993 at approximately 8 a.m. These sound level readings were performed using a Quest Model 215 Sound Level Meter, S/N # M9030041. A Quest one inch microphone, 215R was used. The meter was calibrated before and after the measurements using a Quest CA-12B external calibrator. All sound level readings were taken on the A scale, slow response. Each value is represented in dBA and was obtained over a miminum sample source as a perimeter distance of 5' along 4 separate points (90 degree angles to the sound source) and 4 ½ to 5 ½ feet above floor level. These noise level samples were taken with the sound level meter perpendicular t o the air mover and also directly behind the air mover. The utilization of a 5 second period was selected to allow for fluctuations in noise levels which may exist due to the intermittence of various noise sources. The A-weighted noise level was utilized since it provides a single number rating that has been found to correlate well with peoples subjective assessment of the loudness of many types of sounds with hearing damage risk due to the exposure to continuous sound.

The following readings were obtained with the air mover operating on at an operating level of 90PSIG, outside under open conditions:

All area samples 5 feet from the sound source (perpendicular to exhaust from Air Mover) ranged from 80 to 81 dBA. Samples taken 5' behind the employee holding the source away from the sound level meter ranged from 84 to 85 dBA. The average sound level reading of all of these positions was 82.5 dBA.

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