HUMAN AND STRUCTURAL RESPONSE TO SOUND PRESSURE LEVELS AND THE RANGE OF SOUND PRESSURE LEVELS EXPECTED FROM AIR BLASTS

DECIBELS	LB/IN^2		
180	3	STRUCTURES DAMAGED	AIRBLAST FROM EXPLOSIONS
	1	MOST WINDOWS BREAK	
160	0.3		
	0.1	SOME WINDOWS BREAK	
140	0.03	"NO DAMAGE" LEVEL	
	0.01		
120	0.003	THRESHOLD OF PAIN	
	0.001	THRESHOLD OF COMPLAINTS (DISHES AND WINDOWS RATTLE)	
100	0.0003	RIVETER	
	0.0001		
80	3×10^{-5}		
60	3×10^{-6}	ORDINARY CONVERSATION	
40	3×10^{-7}	HOSPITAL ROOM	
20	3×10^{-8}	WHISPER	
0	3×10^{-9}	LEVEL OF HEARING	

(Source: Ladegaard-Pederson and Dally, 1975)

DOS POBRES/SAN JUAN PROJECT

Graham County, Arizona T.5S.R.26E. T.6S.R.26E.

SOUND PRESSURE LEVELS AND RANGE EXPECTED FROM AIR BLASTS

FIGURE 4-3

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