

35.5 The octave band measurements of a fan are: 63Hz, 64dB; 125Hz, 67dB; 250Hz, 63dB; 500Hz, 63dB; 1000Hz, 59dB; 2000Hz, 54dB; 4000Hz, 50dB; 8000Hz, 46dB. What is the NC rating?

- A. NC-45
- B. NC-50
- C. NC-55
- D. NC-60

Refer to the **Noise Criteria** curves and use the figure to plot the sound pressure level in *dB* for each octave band frequency. The NC rating is the lowest curve which all measured values fall below.

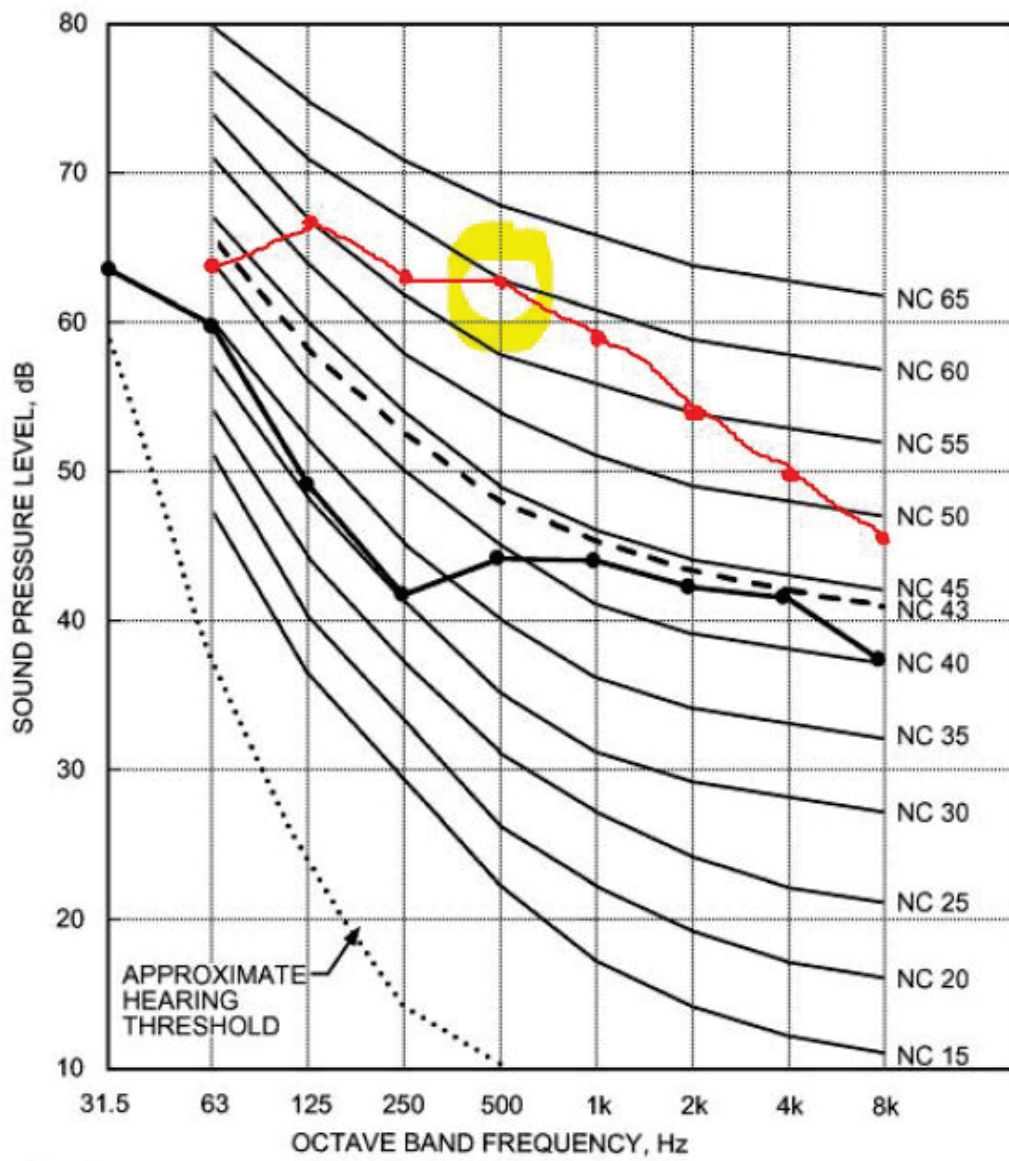


Fig. 7 NC (Noise Criteria) Curves and Sample Spectrum (Curve with Symbols)

In this case, the worst case octave band is the 500Hz frequency, and the rating is NC-60.
 Answer D