

24th Aerospace Testing Seminar

April 7, 2008

SAND2008-2014C

Direct Field Acoustic Testing Poster Session

Presented by:

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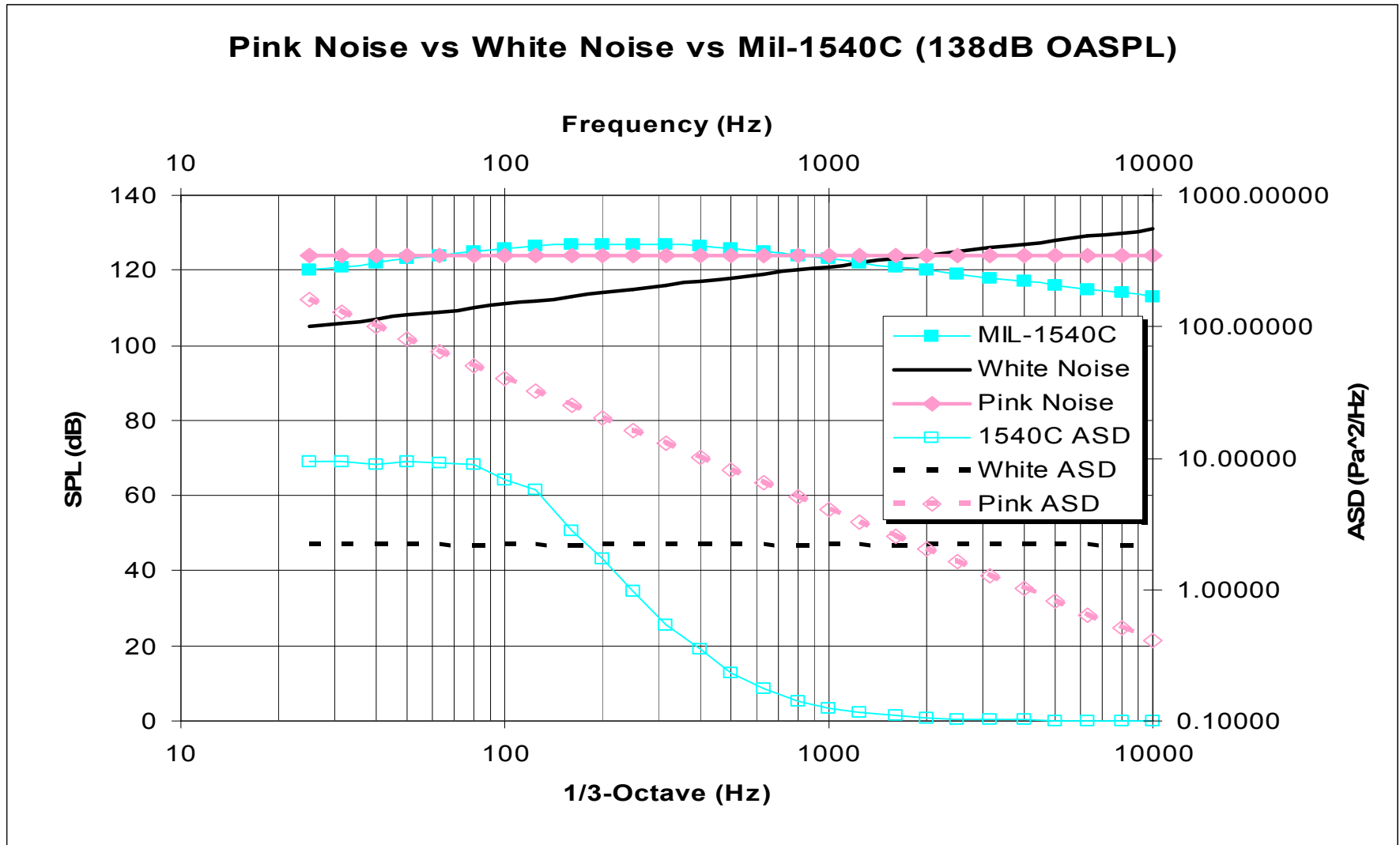
(505) 845-0676

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for the United States Department of Energy



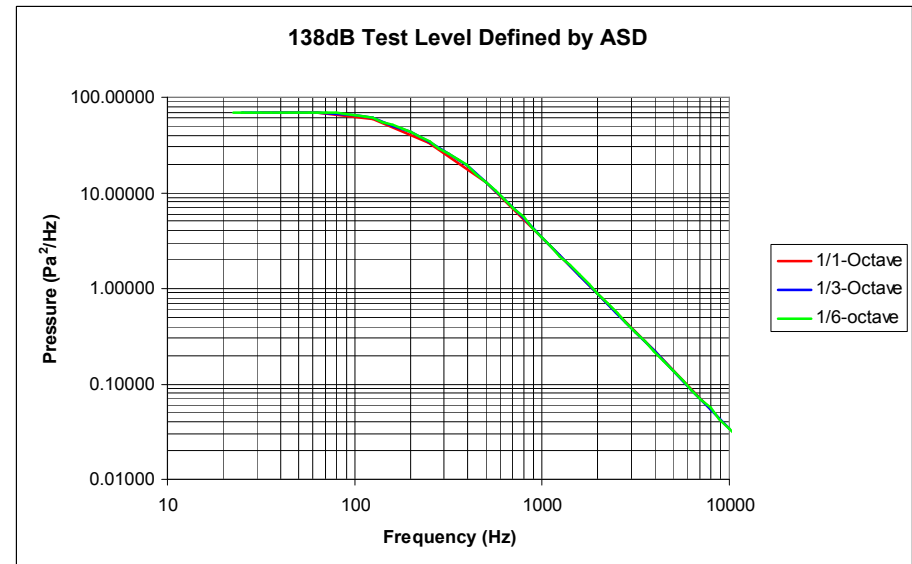
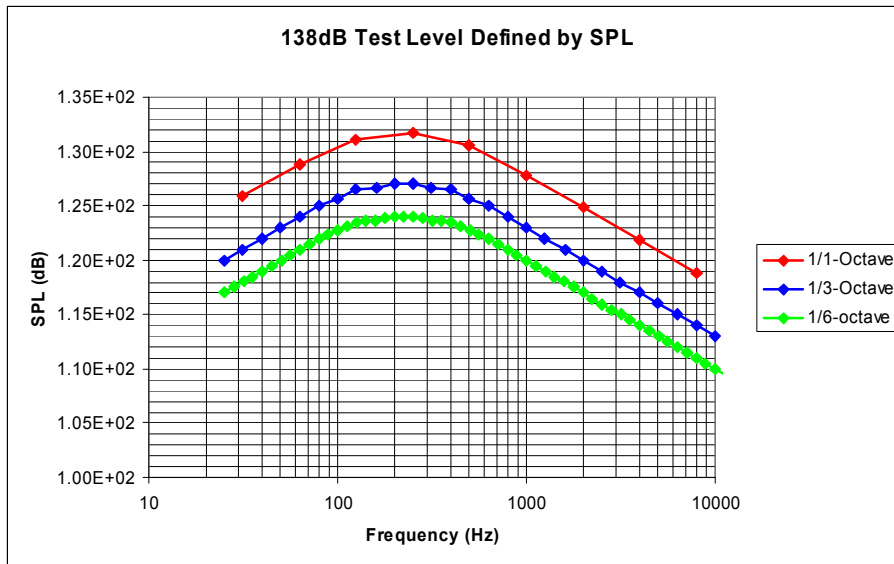
Narrow-Band Control

1/3-Octave vs. Continuous Spectra



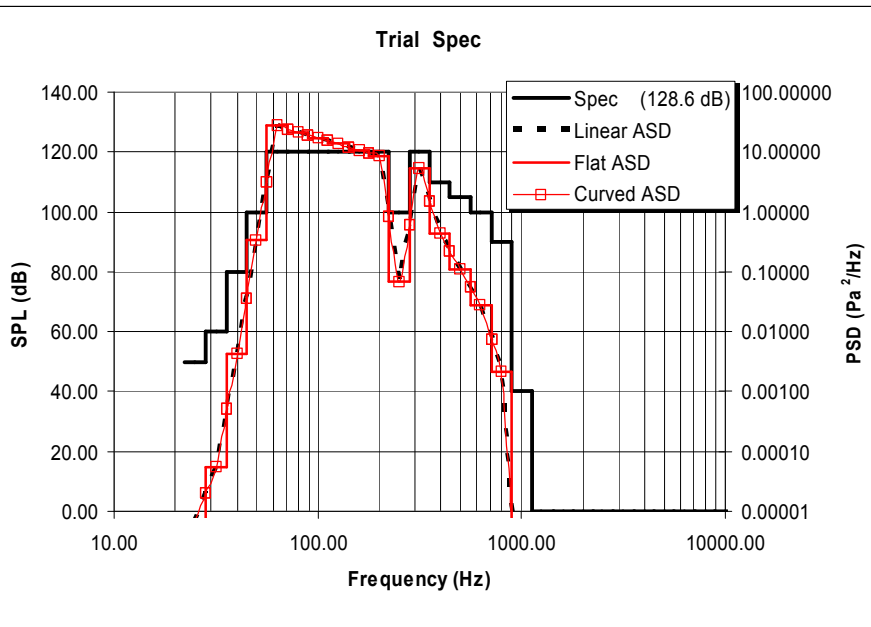
Narrow-Band Control

1/n-Octave vs. Continuous Spectra for MIL-1540C

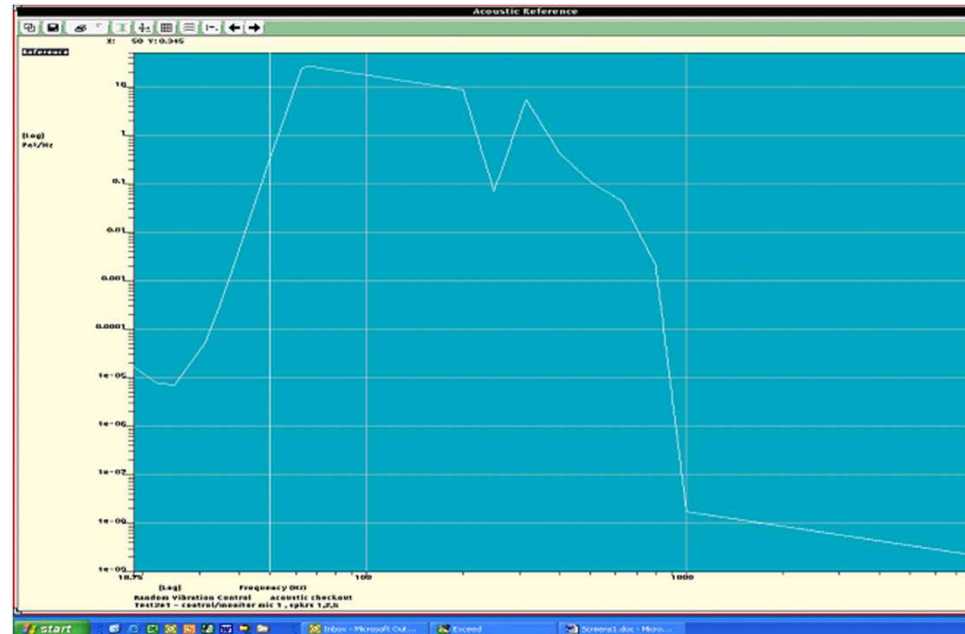


Narrow-Band Control

ASD Computed 3 Ways

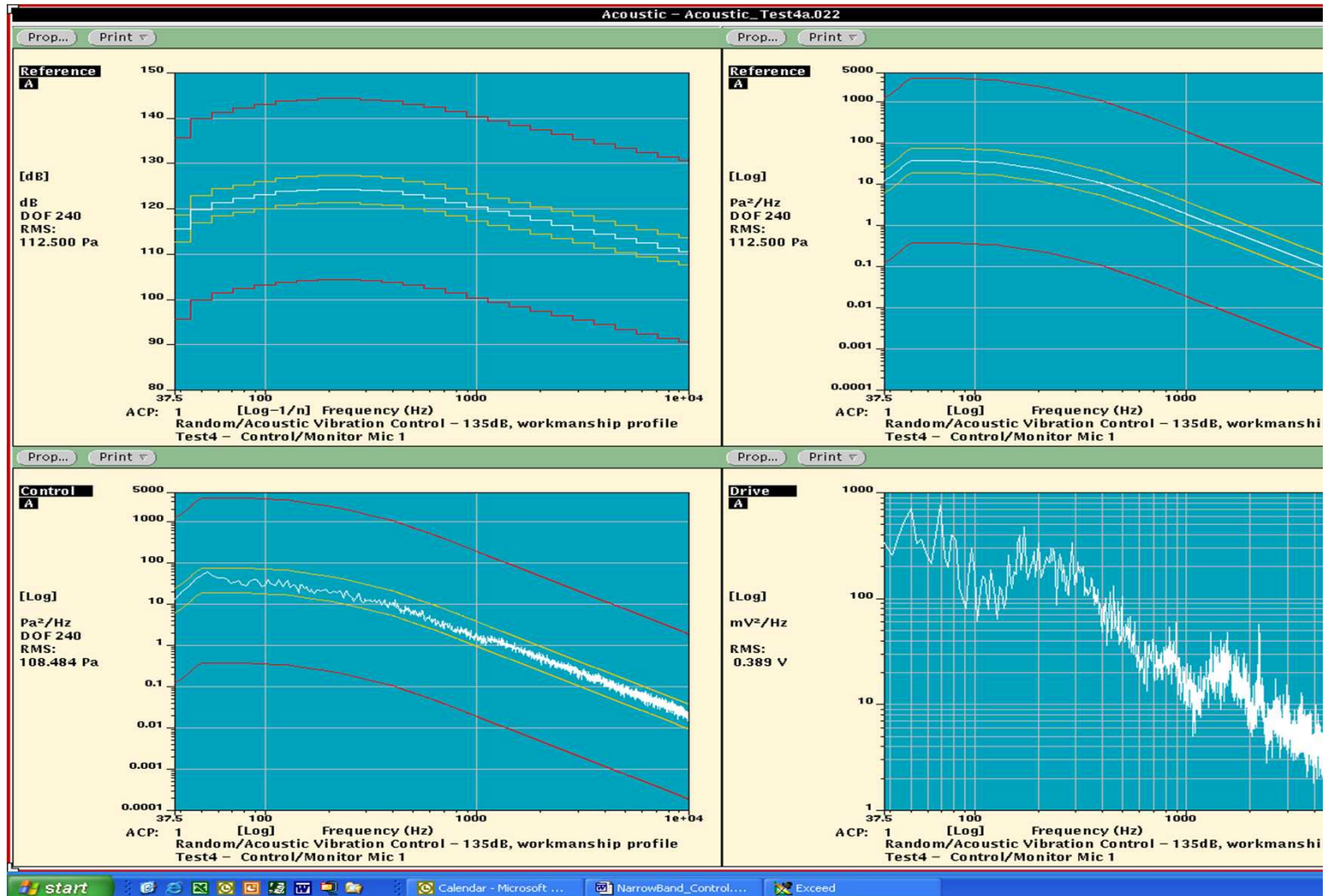


Control System Reference



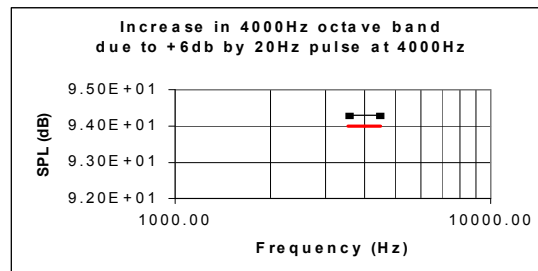
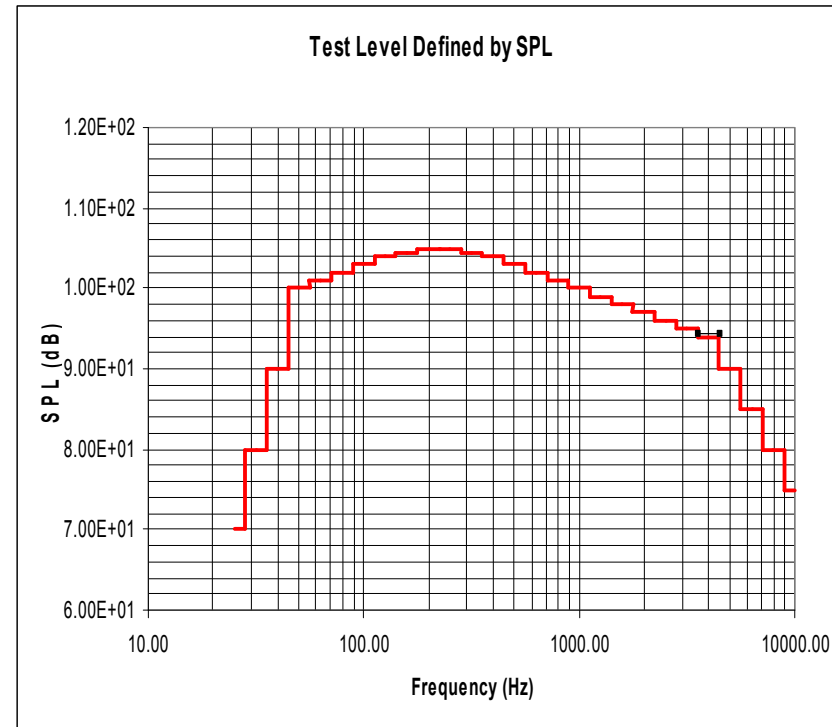
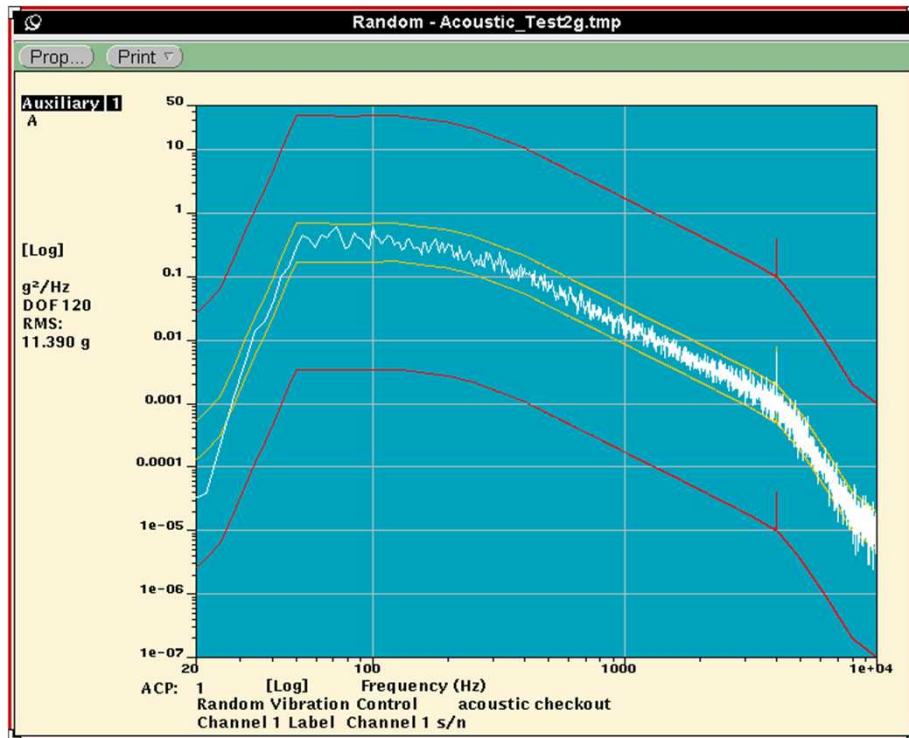
Narrow-Band Control

1/3-Octave vs. Narrow-Band Control



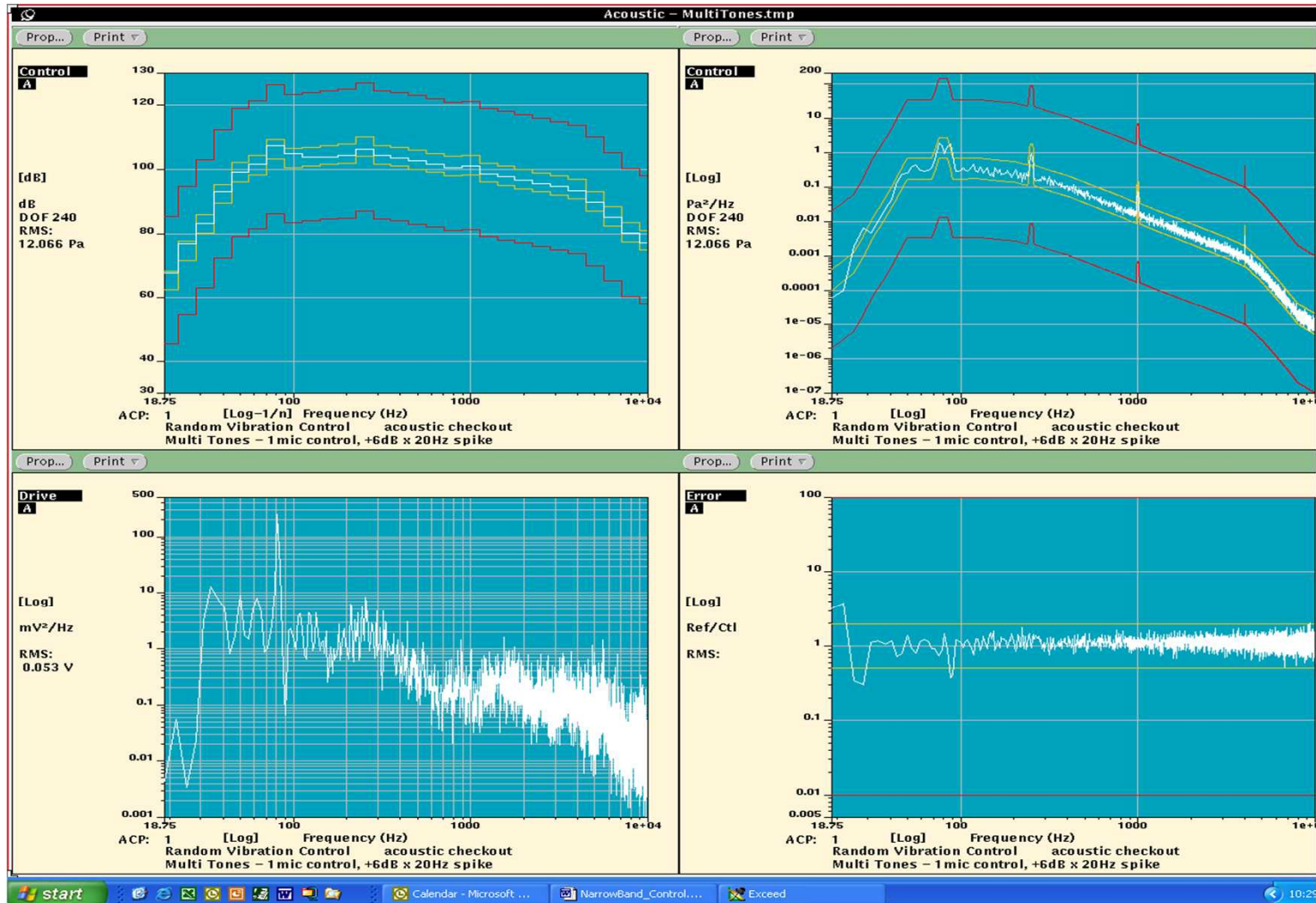
Narrow-Band Control

+6dB Tone at 4000 Hz, 20Hz wide



Narrow-Band Control

Multiple Tones



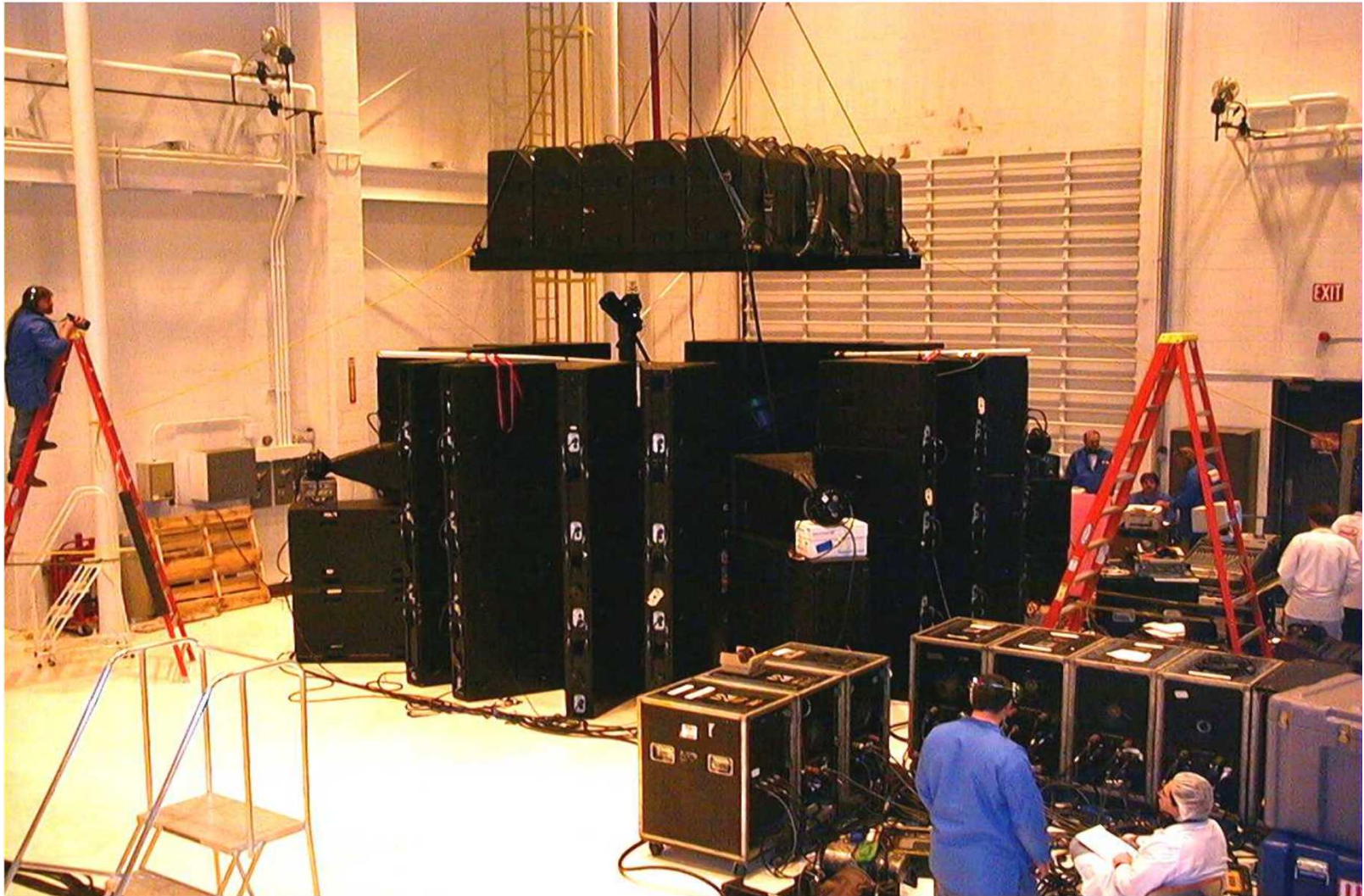
DIRECT FIELD ACOUSTIC TEST EQUIPMENT



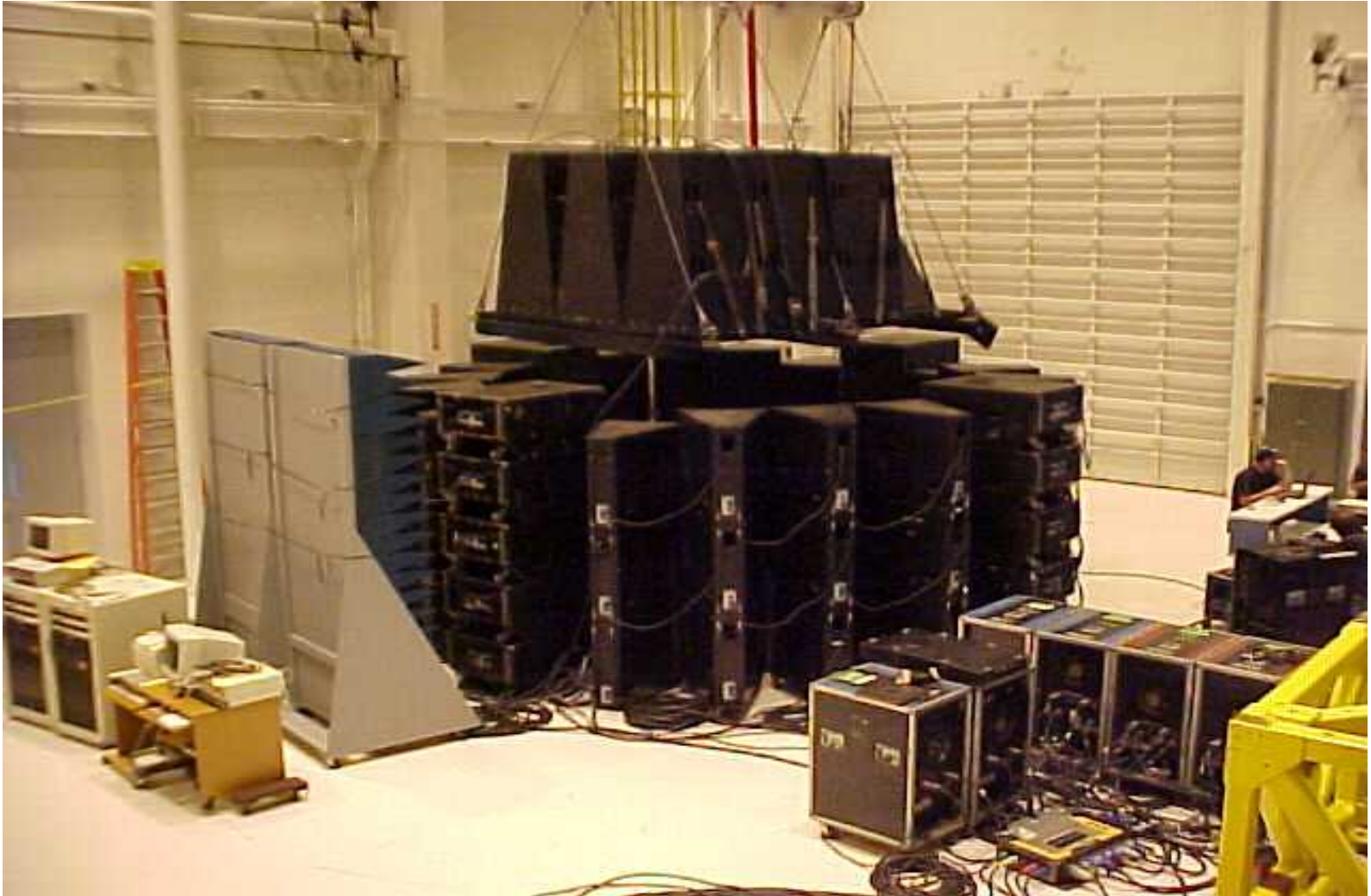
TEST ARRANGEMENT



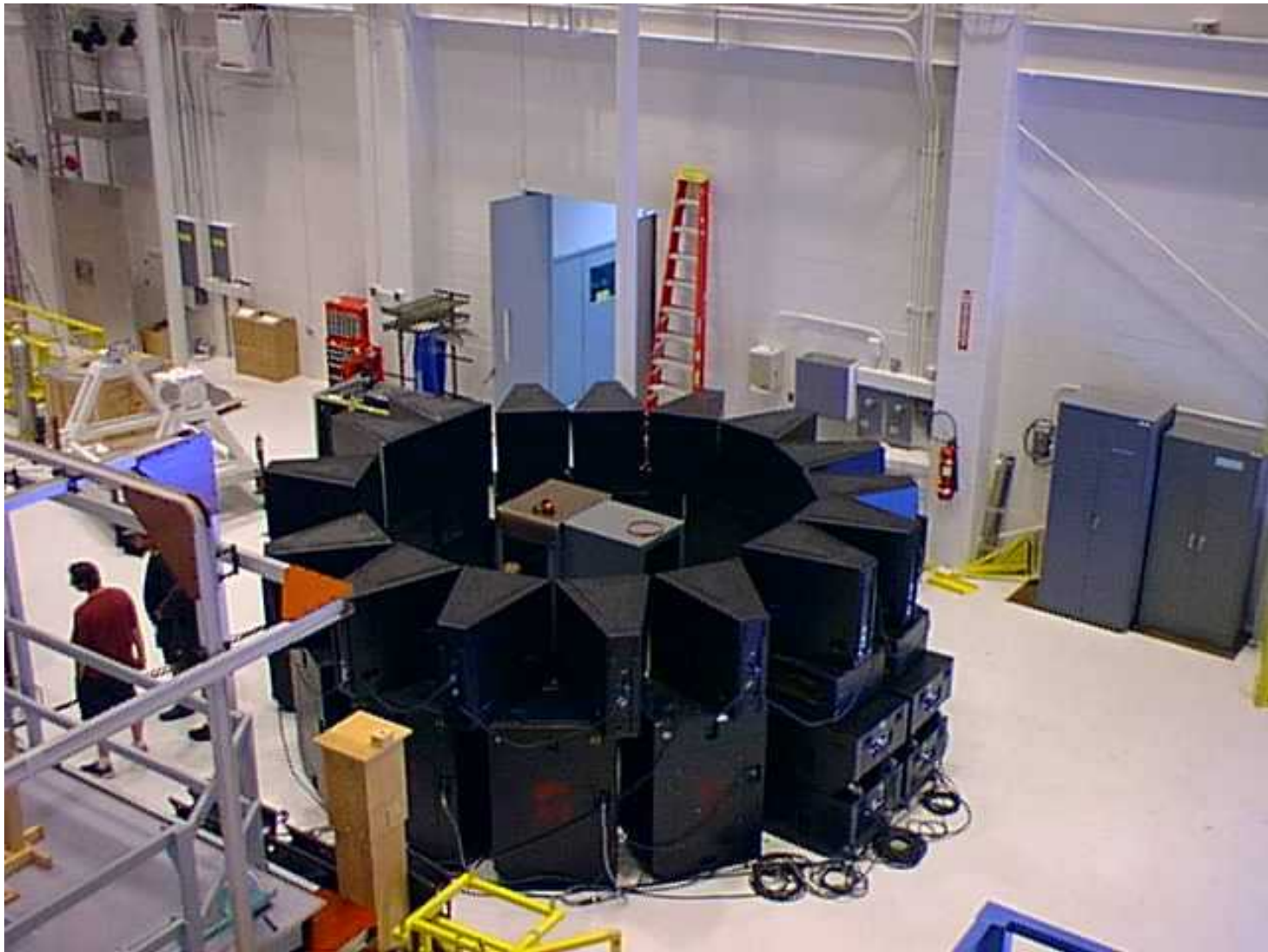
EQUIPMENT STACKUP



250 HZ HORNS OVER-HEAD



TEST RUN

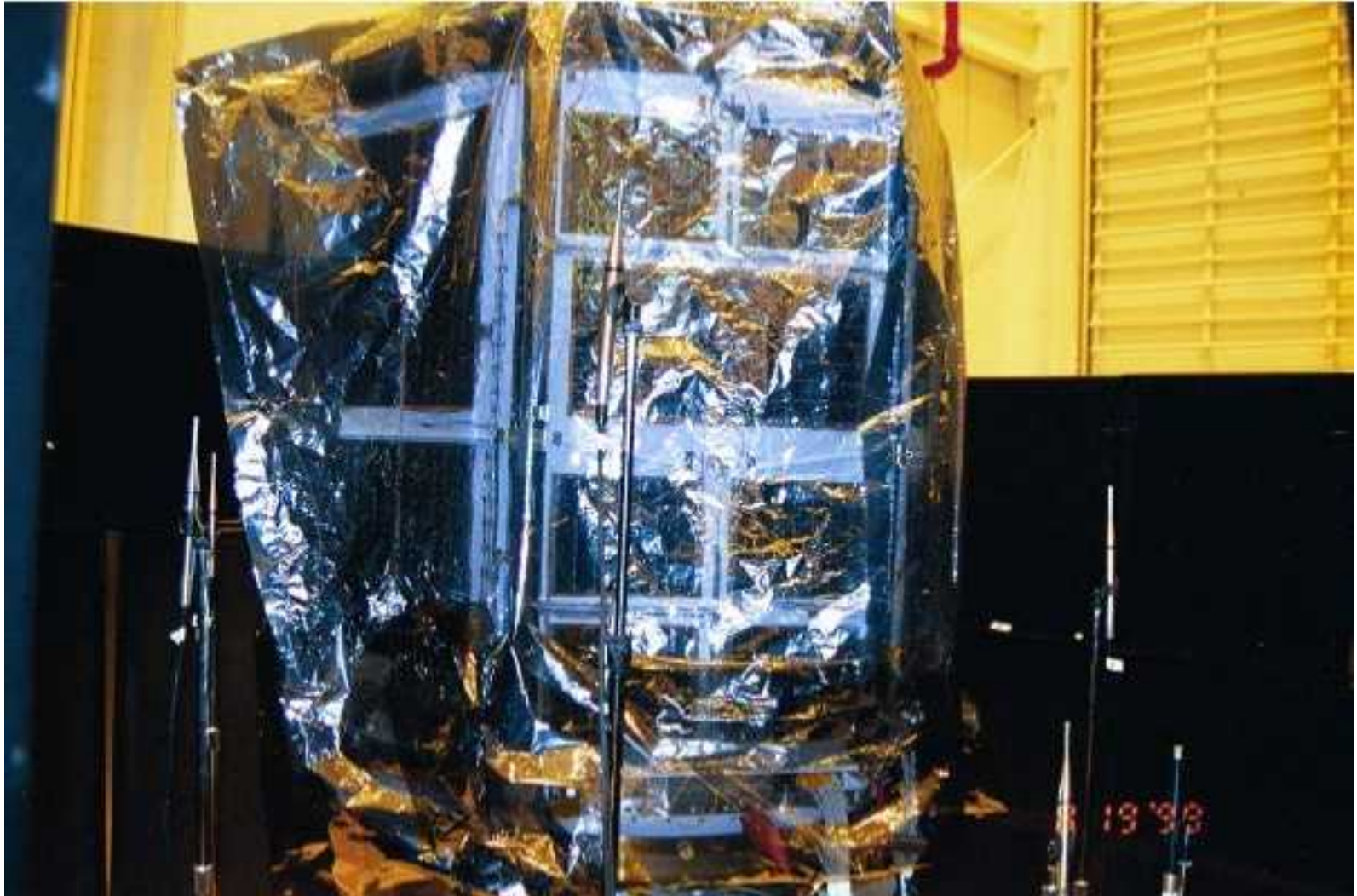


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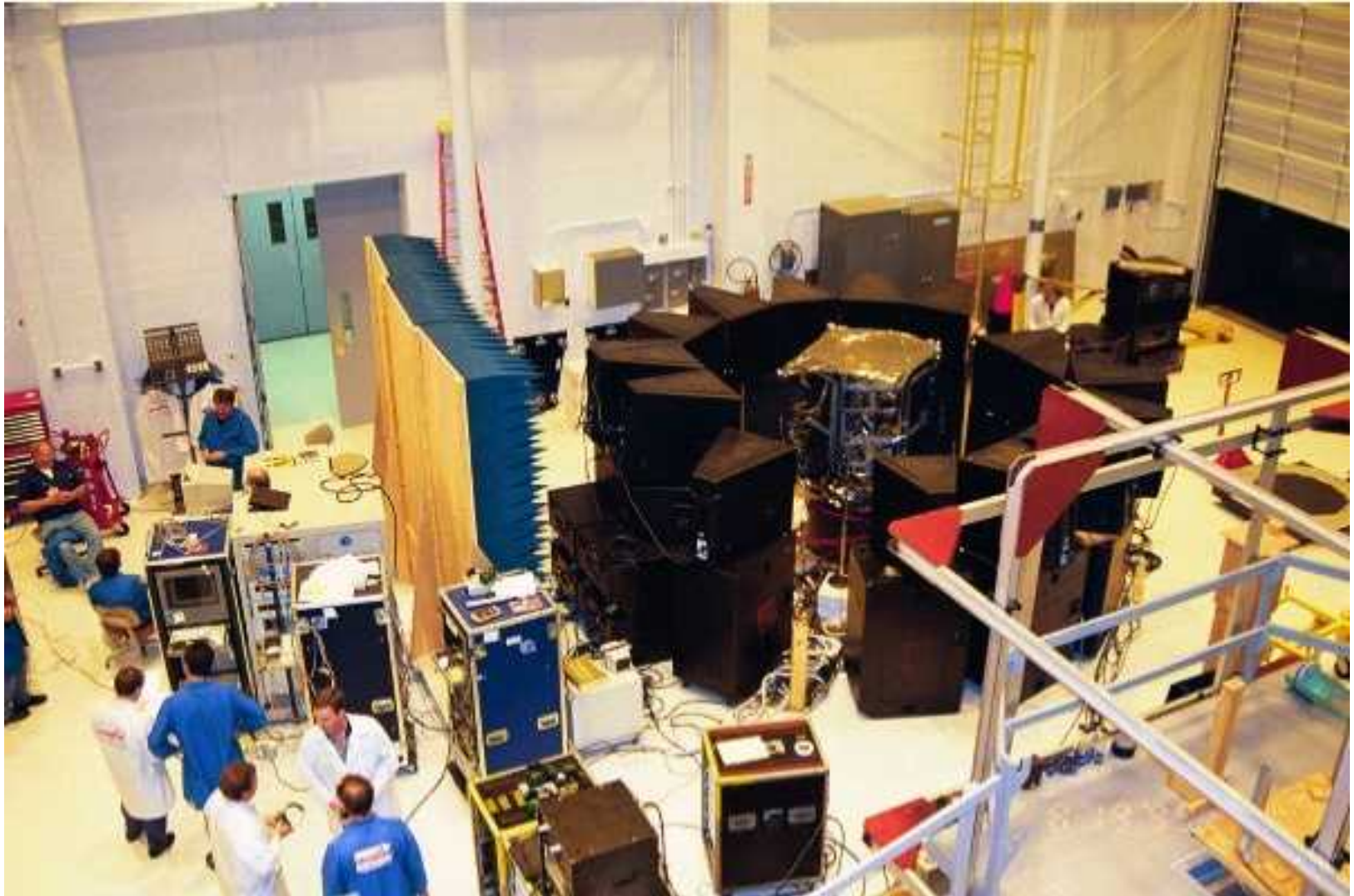
FINAL CONFIGURATION W/SOUND BARRIER



CONTAMINATION BAG



S/C CHECKOUT & SOUND EQUIPMENT

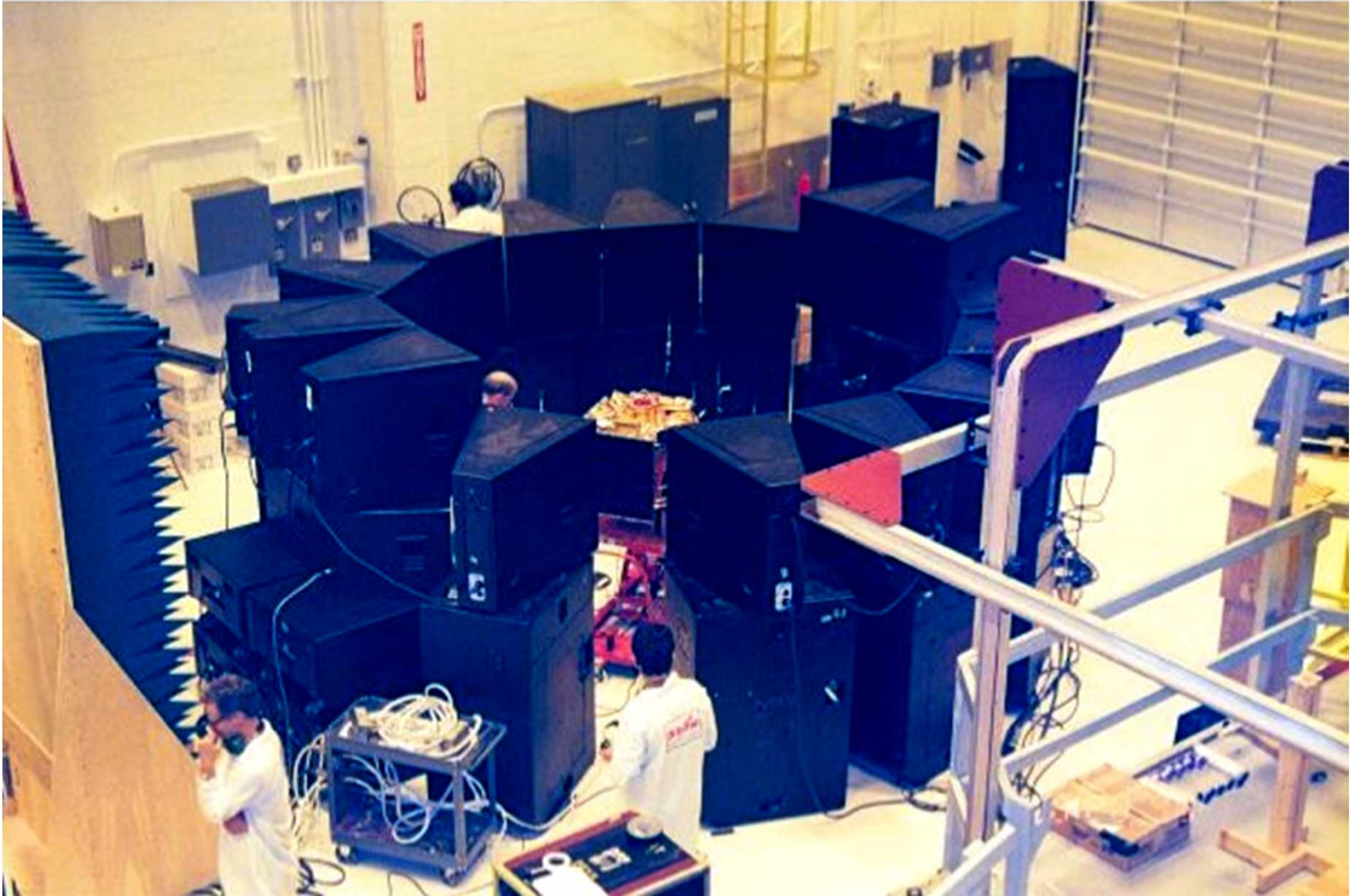


SOUND EQUIPMENT



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SETUP



SMALL SATELLITE TEST

