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### Blast Overpressure Studies with Animals and Man

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APPENDIX E. SUMMARY OF EACH SUBJECT'S PATH THROUGH THE MATRIX

APPENDIX E
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Blast Overpressure Studies
February 1997

a. Subject 1012 had positive guaiacs after Level 6 on the weekend of 25-26 June 94; negative thereafter.

b. Levels "00" and "0" were passed on 14 and 15 June, respectively.

a. Subject 1016 had a positive guaiac on 1 July 94; negative thereafter.

b. Levels "00" and "0" were passed on 14 and 15 June, respectively.

a. Subject 1022 had a positive guaiac after Level 1; negative thereafter.

b. Levels "00" and "0" were passed on 15 and 16 June, respectively.

E-3

a. Subject 1035 elected to stop after Level 1.

a. Subject 1042 elected to stop after Level 3 because of family problems.

a. Subject 1052 was not exposed further because of chronic ulcers.
a. Subject 1056 was a conditional failure after condition 6/3 and was not exposed further.
(Note: Subject 1113 had a positive guaiac on 1/30/95; negative on 1/31/95. Delayed one day.)

E-15
Appendix E-17. Exposure Matrix of Subjects 1132, 1133, 1135, and 1136, March 1995
(Note: Subject 1125 was dropped after Level 3 because of his disclosure of a history of fainting and the fact that he had an episode the night of 6 March 1995.)

a. Subject 1155 elected to stop after Level 5.

E-21

a. Subject 1196 had a positive guaiac on 15 May from eating raw meat. He was negative on 16 May.

a. Subject 2013 was required to repeat condition 1/6 because of a mechanical failure of the audiometer (stepping attenuator) after his exposure to 1/6. He was moved to next group.
b. Subject 2015 was a failure at 2000 Hz after condition 3/6.
c. Subject 2012 was sick on 28 August, selected to go to Level 7.
d. Subject 2015 elected to stop after five shots of the 25 shots at Level 6.
e. Subject 2012 was an elective failure after condition 6/12.
f. Subject 2016 elected not to go to condition 2/100.

a. Subject 2025 was an audiometric failure with a TTS of 25 dB at 1 kHz at 20 minutes.
b. Subject 2013 was sick on 8/18/95 and was exposed to Level 5 on 8/21.
c. Subject 2013 elected not to go to Level 7.
d. Subject 2022 was a conditional failure after condition 6/50 with a TTS; of 17 db at 2000 Hz. Because of time constraints, further testing was terminated.
e. Subject 2025 elected not to go to condition 2/100.

a. Subject 2023 was a conditional failure with a TTS of 18 dB at 3 kHz at the 20-minute post audiogram (TTS, was 14 dB).

b. Subject 2023 was a conditional failure after condition 5/12 with a TTS of 22 dB at 3 kHz.

c. Subject 2035 elected not to go to Level 7.

d. Subject 2023 was a failure with a TTS. Computer problems caused the delay.

e. Subject 2035 was sick on 8/31/95.

f. Subject 2023 elected to stop further exposure after the first 12 shots of condition 3/50. His ears started ringing after shot 10 and became worse after shot 12. No TTS occurred. Considered an elective failure after condition 3/25.

a. Subject 2042 was a failure with a TTS of 20 dB at 2 minutes and 28 dB at 1 hour.
b. Subject 2036 elected to stop further exposures.
c. Subject 2033 elected not to go to Level 7.
d. Subject 2042 started with level 2 protection on 30 August.
e. Subject 2042 was an elective failure after condition 6/6, second-level hearing protection.
Appendix E-30. Subject Nos. 2052, 2053, and 2056, September-October 1995.

A. Subject 2056 was a conditional failure with a TTS of 23 dB at 6000 Hz.
B. Subjects 2053 and 2056 elected not to go to Level 7.
C. Subject 2053 elected not to go to condition 6/100.

A. Subject 2065 delayed 1 day due to needing his ears cleaned.
B. Subject 2062, 2063, and 2065 elected not to go to Level 7.
C. Subject 2062 had strep throat on 23 October.
D. Subject 2063 was an auditory failure with a TTS, of 28 dB at 1 kHz.
E. Subject 2063 started second-level hearing protection.
F. Subject 2065 was a conditional failure with a TTS, of 19 dB at 4 kHz and a TTS, of 22 dB at 2 kHz. Subject elected not to go to condition 5/100.
G. Subject 2063 was an elective failure to condition 6/50 with second-level protection. Cited headaches caused by the blast.
H. Subject 2062 was an elective failure for condition 6/100.

A. Subject 2076 was an audiometric failure with a TTS; of 38 dB at 4 kHz and 22 dB at 8 kHz.
B. Subject 2076 started second-level hearing protection with E.A.R.® foam plugs.
C. Subjects 2072 and 2075 elected not to go to Level 7.
D. Subject 2075 came off the pad early because his ringing kept getting worse after shot 3. He came off after shot 8. He did not have a trace of TTS, thus, he was required to redo condition 6/12.
E. Subject 2075 was a conditional failure with a TTS; of 15 dB at 4 kHz
F. Subject 2076 elected not to go to Level 7 with second-level hearing protection.
G. Subject 2076 began second-level hearing protection.
H. Subject 2072 elected not to go to condition 6/100.
I. Subject 2076 was taken off the pad after 20 shots because of a sinus headache that kept becoming worse with each blast.
J. Subject 2075 elected to stop further exposure both to 6/25 with second-level hearing protection or condition 5/25 with first-level hearing protection.
K. Subject 2076 came off the pad at 40 shots because of a sinus headache that started at shot 10 and increased until shot 20, then stayed constant. Elected not to go to condition 6/100.

A. Subject 2055 was a conditional failure with a TTS of 16 dB at 2000 Hz.
B. Subject 2066 was a conditional failure with a TTS of 21 dB at 2000 Hz.
C. Subject 2085 was a conditional failure with a TTS of 18 dB at 8 kHz.
D. Subject 2066 was a conditional failure with a TTS of 16 dB at 2 kHz and a TTS of 17 dB at 3 kHz.
E. Subject 2085 was administratively dropped from the study for a behavior problem (skipping out from his barracks several times at night without permission).
F. Subject 2066 started second-level hearing protection (E.A.R.® Foam plug) on 10/11/95.
G. Subject 2055 elected not to go to Level 7.
H. Subject 2055 elected to stop further exposure after 44 shots of condition 6/100. He adjusted his plug once, yet his ringing in his ear kept increasing.
I. Subject 2055 felt his earplug loosen, so he came off the pad after shot 9 of the 12 shots.