APPENDIX B

ACCELERATION AND FORCE RESPONSE PLOTS;
FREQUENCY SPECTRUM PLOTS
DUE TO HEEL DROP AND JUMPING TESTS
Acceleration vs. Time
HDS Impact @ Corner - No Valves

Frequency Spectrum
HDS Impact @ Corner - No Valves

Acceleration vs. Time
HDS Impact @ Side - No Valves

Frequency Spectrum
HDS Impact @ Side - No Valves
NO VALVES
NO VALVES

Acceleration vs. Time
Jumping @ 2.5 Hz - F0204A3

Frequency Spectrum
Jumping @ 2.5 Hz - F0204A3

Acceleration vs. Time
Jumping @ 3.0 Hz - F0204A4

Frequency Spectrum
Jumping @ 3.0 Hz - F0204A4
NO VALVES

Input Force vs. Time
Jumping @ 1.5 Hz - F0204F5

Frequency Spectrum
Jumping @ 1.5 Hz - F0204F5

Input Force vs. Time
Jumping @ 2.0 Hz - F0204F6

Frequency Spectrum
Jumping @ 2.0 Hz - F0204F6
NO VALVES

**Input Force vs. Time**
Jumping @ 2.5 Hz - F0204F7

**Frequency Spectrum**
Jumping @ 2.5 Hz - F0204F7

**Input Force vs. Time**
Jumping @ 3.0 Hz - F0204F8

**Frequency Spectrum**
Jumping @ 3.0 Hz - F0204F8
NO VALVES

Output Force vs. Time
Jumping @ 1.5 Hz - F0204F1

Frequency Spectrum
Jumping @ 1.5 Hz - F0204F1

Output Force vs. Time
Jumping @ 2.0 Hz - F0204F2

Frequency Spectrum
Jumping @ 2.0 Hz - F0204F2
NO VALVES

Output Force vs. Time
Jumping @ 2.5 Hz - F0204F3

Frequency Spectrum
Jumping @ 2.5 Hz - F0204F3

Output Force vs. Time
Jumping @ 3.0 Hz - F0204F4

Frequency Spectrum
Jumping @ 3.0 Hz - F0204F4
OPEN VALVES

Acceleration vs. Time
Jumping @ 1.5 Hz - F0204A20

Frequency Spectrum
Jumping @ 1.5 Hz - F0204A20

Acceleration vs. Time
Jumping @ 2.0 Hz - F0204A21

Frequency Spectrum
Jumping @ 2.0 Hz - F0204A21
OPEN VALVES

Acceleration vs. Time
Jumping @ 2.5 Hz - F0204A22

Frequency Spectrum
Jumping @ 25 Hz - F0204A22

Acceleration vs. Time
Jumping @ 3.0 Hz - F0204A23

Frequency Spectrum
Jumping @ 3.0 Hz - F0204A23
OPEN VALVES

Input Force vs. Time
Jumping @ 1.5 Hz - F0204F10

Frequency Spectrum
Jumping @ 1.5 Hz - F0204F10

Input Force vs. Time
Jumping @ 2.0 Hz - F0204F11

Frequency Spectrum
Jumping @ 2.0 Hz - F0204F11
OPEN VALVES

Input Force vs. Time
Jumping @ 2.5 Hz - F0204F12

Frequency Spectrum
Jumping @ 2.5 Hz - F0204F12

Input Force vs. Time
Jumping @ 3.0 Hz - F0204F13

Frequency Spectrum
Jumping @ 3.0 Hz - F0204F13
OPEN VALVES

Output Force vs. Time
Jumping @ 1.5 Hz - F0204F20

Output Force vs. Time
Jumping @ 2.0 Hz - F0204F21

Frequency Spectrum
Jumping @ 1.5 Hz - F0204F20

Frequency Spectrum
Jumping @ 2.0 Hz - F0204F21
OPEN VALVES

Output Force vs. Time
Jumping @ 2.5 Hz - F0204F22

Frequency Spectrum
Jumping @ 2.5 Hz - F0204F22

Output Force vs. Time
Jumping @ 3.0 Hz - F0204F23

Frequency Spectrum
Jumping @ 3.0 Hz - F0204F23
CLOSED VALVES

Acceleration vs. Time
Jumping @ 1.5 Hz - F0204A24

Frequency Spectrum
Jumping @ 1.5 Hz - F0204A24

Acceleration vs. Time
Jumping @ 2.0 Hz - F0204A25

Frequency Spectrum
Jumping @ 2.0 Hz - F0204A25
CLOSED VALVES

Acceleration vs. Time
Jumping @ 2.5 Hz - F0204A26

Frequency Spectrum
Jumping @ 2.5 Hz - F0204A26

Acceleration vs. Time
Jumping @ 3.0 Hz - F0204A27

Frequency Spectrum
Jumping @ 3.0 Hz - F0204A27
CLOSED VALVES

Input Force vs. Time
Jumping @ 1.5 Hz - F0204F14

Frequency Spectrum
Jumping @ 1.5 Hz - F0204F14

Input Force vs. Time
Jumping @ 2.0 Hz - F0204F15

Frequency Spectrum
Jumping @ 2.0 Hz - F0204F15
CLOSED VALVES
CLOSED VALVES

Output Force vs. Time
Jumping @ 1.5 Hz - F0204F24

Frequency Spectrum
Jumping @ 1.5 Hz - F0204F24

Output Force vs. Time
Jumping @ 2.0 Hz - F0204F25

Frequency Spectrum
Jumping @ 2.0 Hz - F0204F25
CLOSED VALVES

Output Force vs. Time
Jumping @ 2.5 Hz - F0204F26

Frequency Spectrum
Jumping @ 2.5 Hz - F0204F26

Output Force vs. Time
Jumping @ 3.0 Hz - F0204F27

Frequency Spectrum
Jumping @ 3.0 Hz - F0204F27