

## **APPENDIX E**

**Data from Forward Cable Break / Jam Ground Testing**

**Table 3**  
**Forward Break, Aft Cable Jam Test Data Summary**

Condition Number	Feel Pressure (psi) (1)	Initial Left Elevator Position (deg) (2)	Initial Right Elevator Position (deg) (2)	Final Left Elevator Position (deg) (2)	Final Right Elevator Position (deg) (2)	Left Elevator Deflection due to Failure (deg) (2)	Right Elevator Deflection due to Failure (deg) (2)	Left Elevator Position Converted to FDR Basis (deg) (3)	Right Elevator Position Converted to FDR Basis (deg) (3)
.080	0	0.60	0.60	-5.60	-5.10	-6.20	-5.70	-5.67	-5.88
.081	0	0.20	0.20	-7.30	-6.80	-7.50	-7.00	-6.97	-7.18
.082	0	0.60	0.60	-7.00	-6.50	-7.60	-7.10	-7.07	-7.28
.092	620	0.90	0.90	-3.00	-2.60	-3.90	-3.50	-3.37	-3.68
.093	620	0.80	0.80	-3.20	-3.00	-4.00	-3.80	-3.47	-3.98
.094	620	0.60	0.60	-3.30	-3.00	-3.90	-3.60	-3.37	-3.78
Average of High Speed Points=								-3.40	-3.81

**Notes:**

- (1) Feel pressure indicates the pressure applied to the feel and centering unit. A feel pressure of 0 psi indicates stationary (no airspeed) conditions, a feel pressure of 620 psi indicates flight conditions equivalent to those of the accident aircraft at the start of the dive.
- (2) Positive elevator position values indicate aircraft nose down (surface trailing edge down) deflection, consistent with the test instrumentation sign convention. This failure condition resulted in transient elevator travel in the airplane nose-up direction. If this failure occurred on the opposite First Officer control cable, the result would be a nearly symmetrical transient elevator response in the airplane nose-down direction.
- (3) Positive elevator position values indicate aircraft nose up (surface trailing edge up) deflection, consistent with the FDR sign convention. These columns were generated by adding the elevator deflections generated by the failure condition (after changing the sign to reflect a failure of the control cable that would produce a nose down elevator movement) to the initial elevator positions on the accident aircraft recorded by the FDR prior to the dive. On the FDR, the left elevator position was 0.53 deg, and the right elevator position was -0.17 deg prior to the dive.

**Table 4  
Forward Break, Forward Cable Jam Test Data Summary**

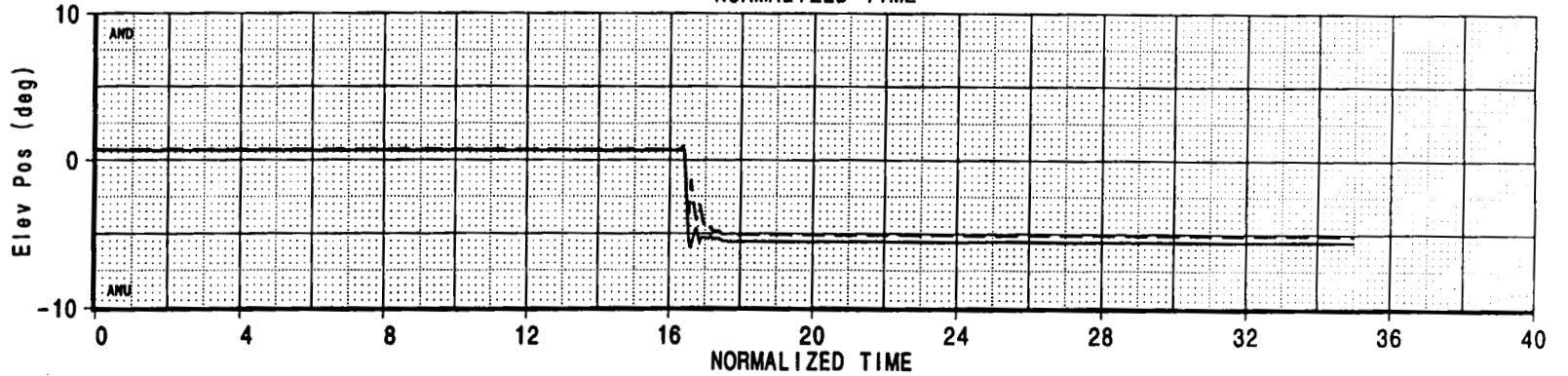
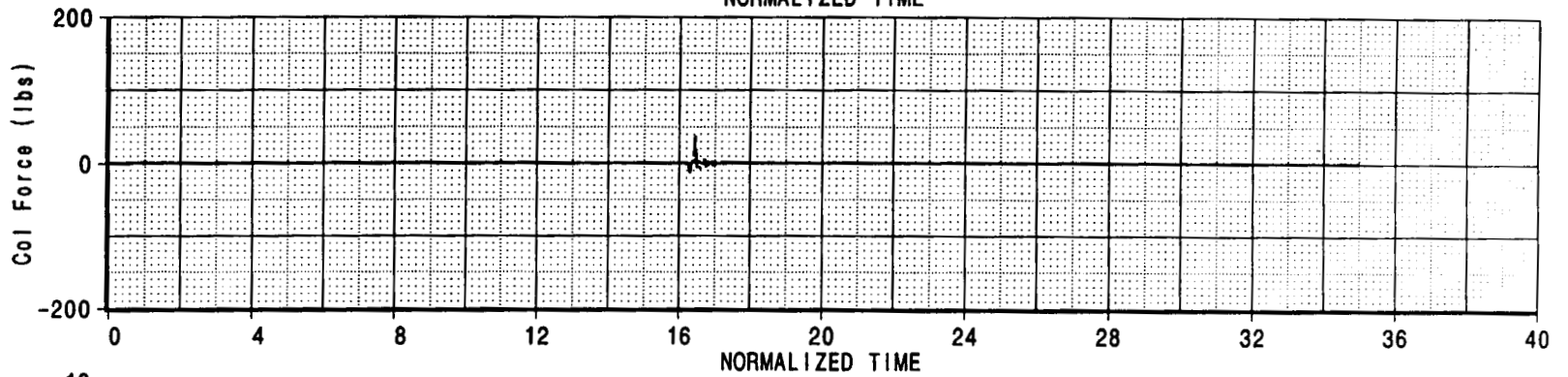
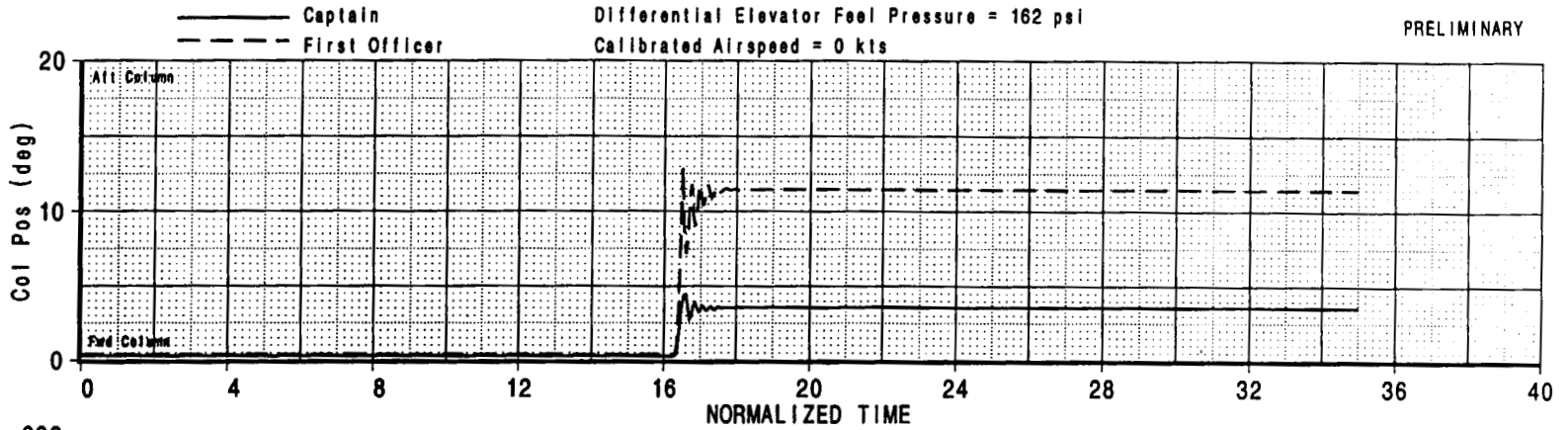
Condition Number	Feel Pressure (psi) (1)	Initial Left Elevator Position (deg) (2)	Initial Right Elevator Position (deg) (2)	Final Left Elevator Position (deg) (2)	Final Right Elevator Position (deg) (2)	Left Elevator Deflection due to Failure (deg) (2)	Right Elevator Deflection due to Failure (deg) (2)	Left Elevator Position Converted to FDR Basis (deg) (3)	Right Elevator Position Converted to FDR Basis (deg) (3)
.110	0	0.70	0.70	11.00	11.50	10.30	10.80	-9.77	-10.98
.111	0	0.40	0.40	10.60	11.00	10.20	10.60	-9.67	-10.78
.112	0	0.40	0.40	10.80	11.30	10.40	10.90	-9.87	-11.08
.122	620	0.60	0.60	5.00	5.50	4.40	4.90	-3.87	-5.08
.122.1	620	0.60	0.60	4.90	5.40	4.30	4.80	-3.77	-4.98
.124	620	0.50	0.50	5.00	5.40	4.50	4.90	-3.97	-5.08
Average of High Speed Points=								-3.87	-5.05

**Notes:**

- (1) Feel pressure indicates the pressure applied to the feel and centering unit. A feel pressure of 0 psi indicates stationary (no airspeed) conditions, a feel pressure of 620 psi indicates flight conditions equivalent to those of the accident aircraft at the start of the dive.
- (2) Positive elevator position values indicate aircraft nose down (surface trailing edge down) deflection, consistent with the test instrumentation sign convention.
- (3) Positive elevator position values indicate aircraft nose up (surface trailing edge up) deflection, consistent with the FDR sign convention. These columns were generated by adding the elevator deflections generated by the failure condition to the initial elevator positions on the accident aircraft recorded by the FDR prior to the dive. On the FDR, the left elevator position was 0.53 deg, and the right elevator position was -0.17 deg prior to the dive.

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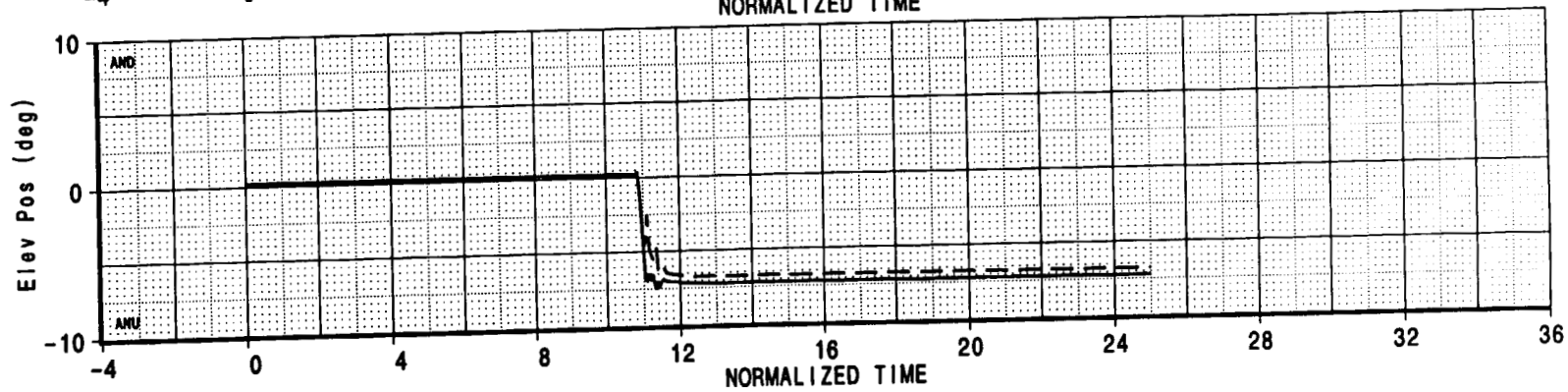
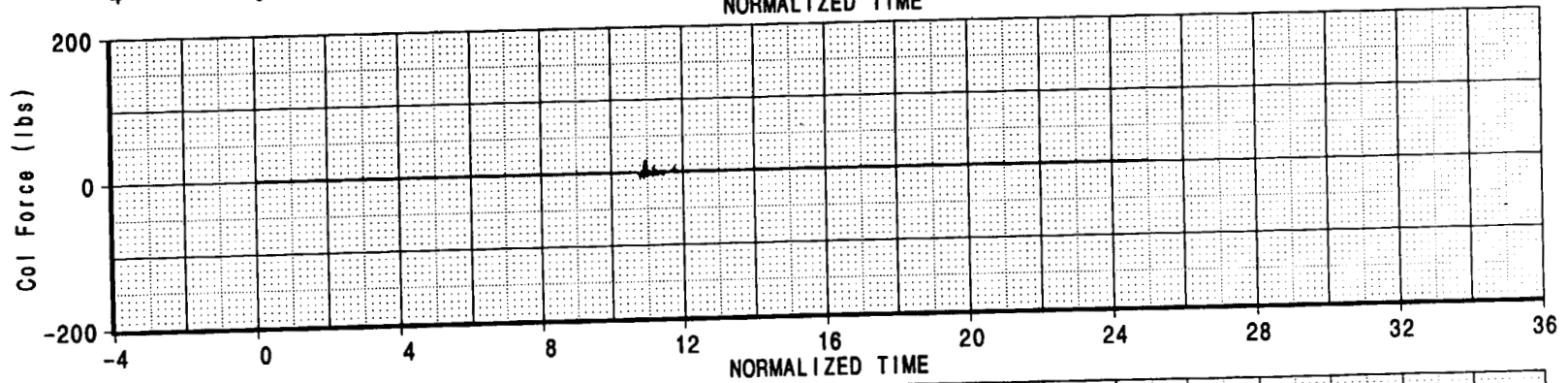
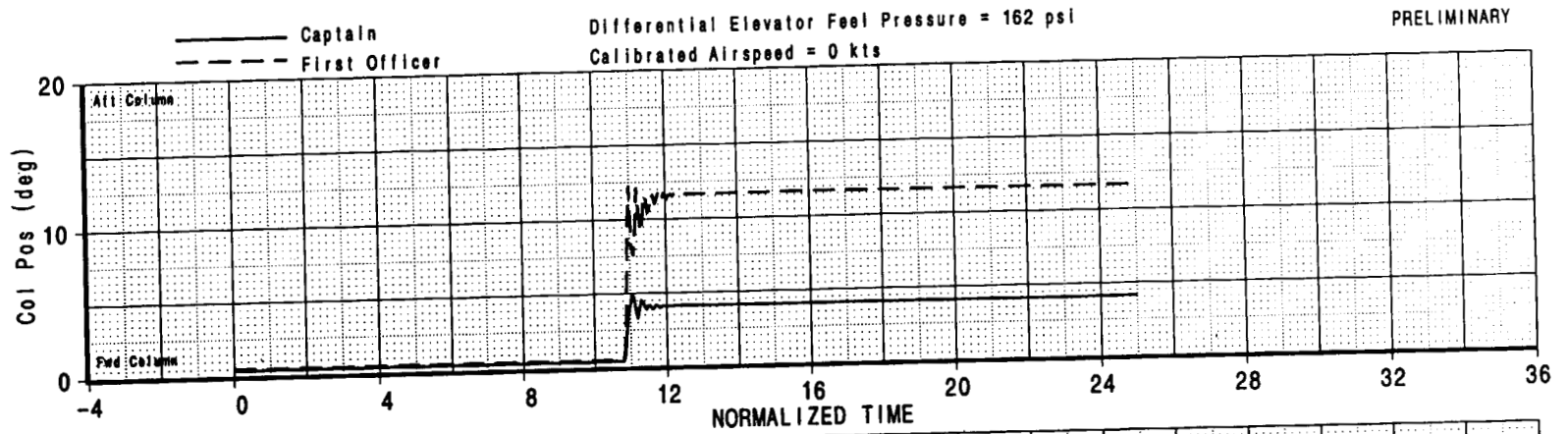
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EGYPT AIR INVESTIGATION FWD CABLE BREAK/AFT CABLE JAM TRANSIENT RESPONSE - COND .080				
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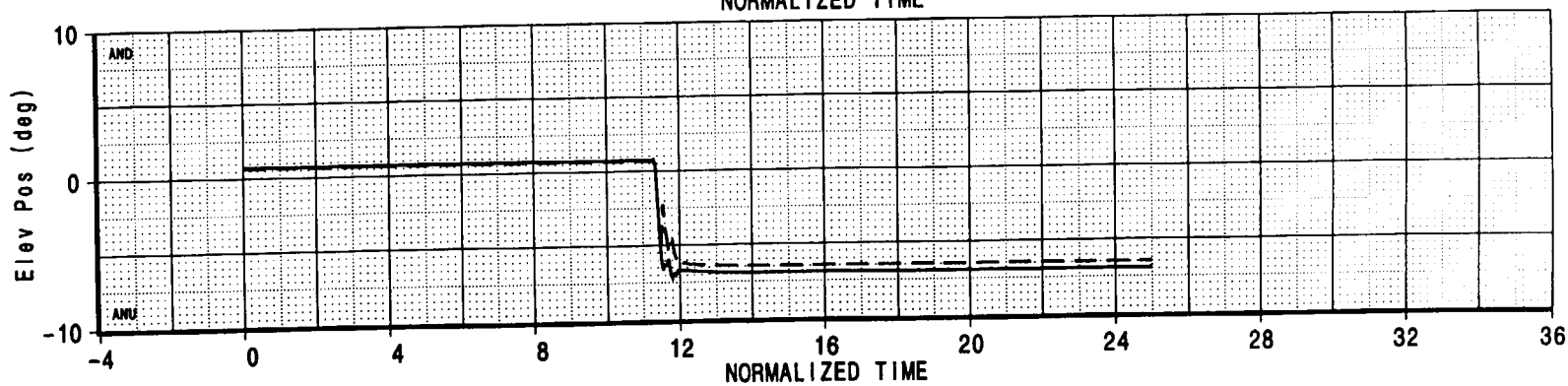
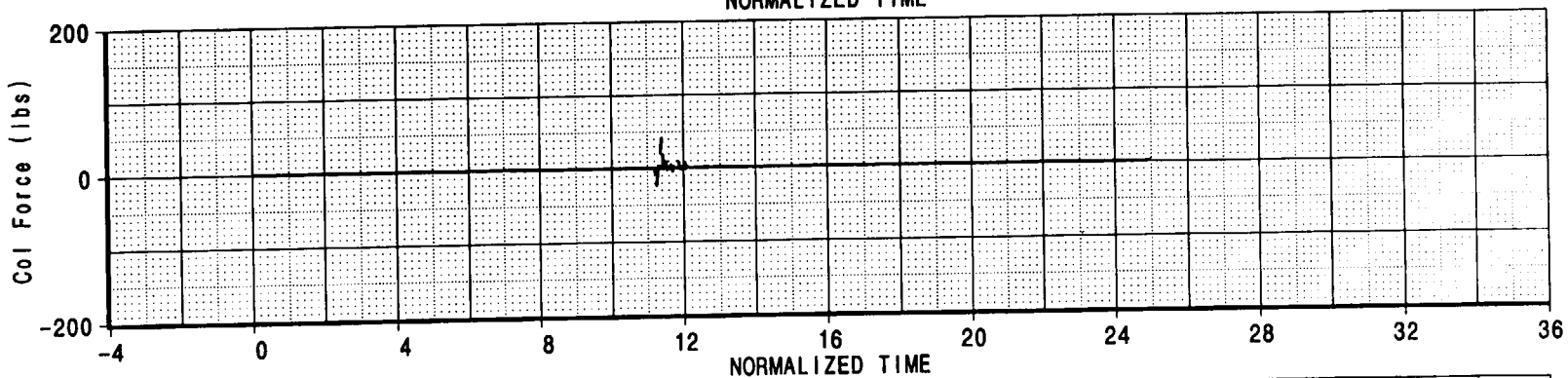
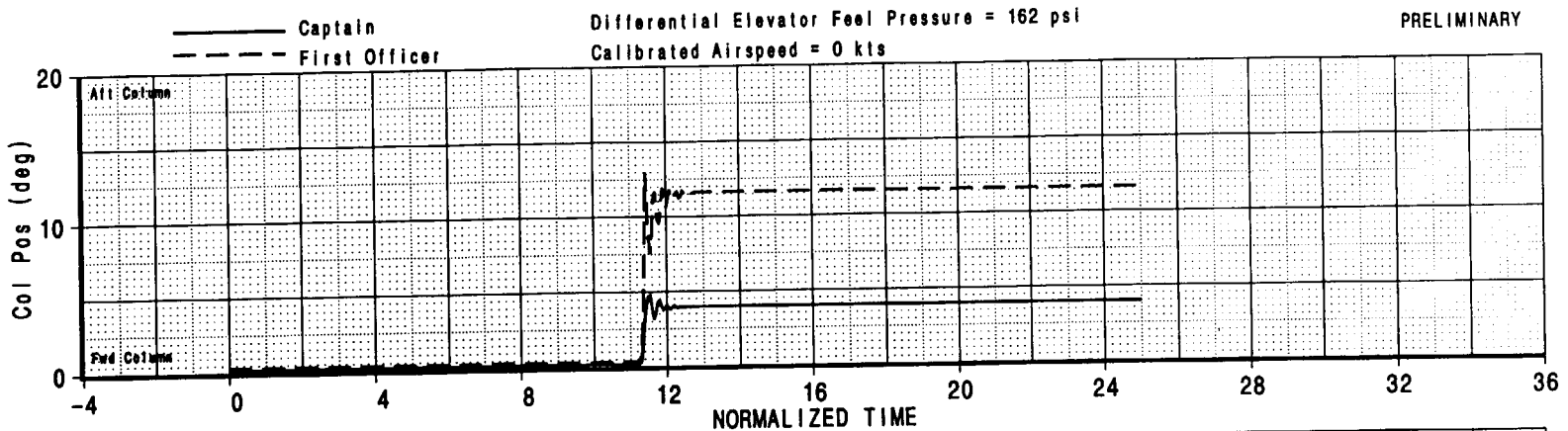
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FWD CABLE BREAK/AFT CABLE JAM				
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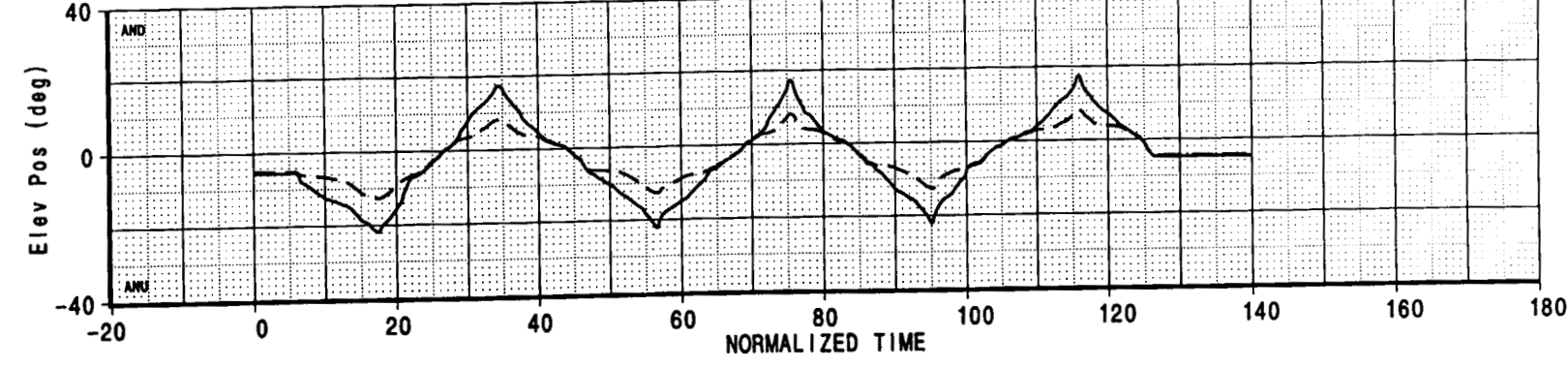
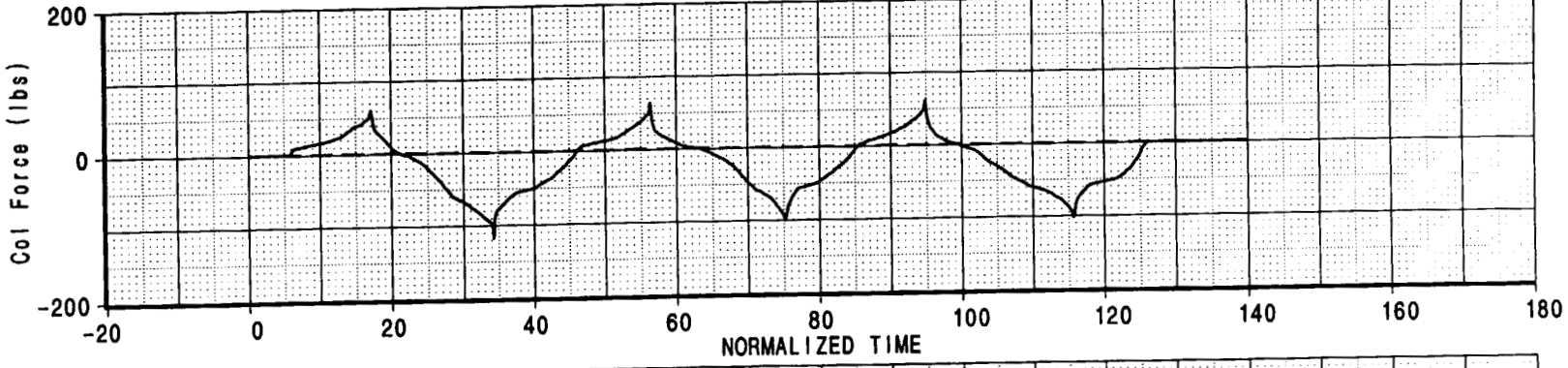
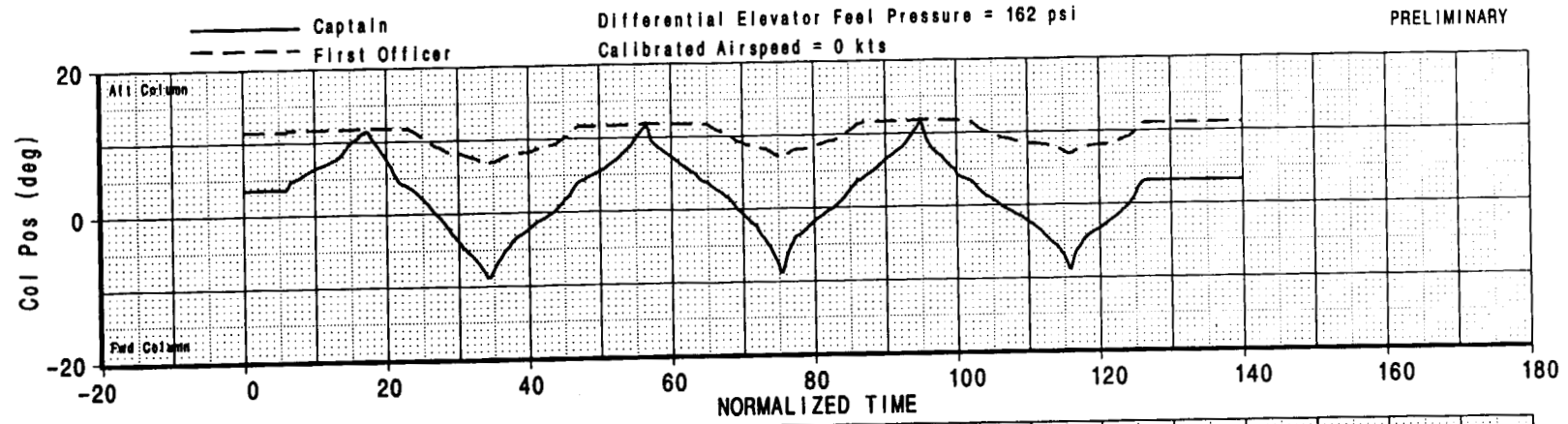
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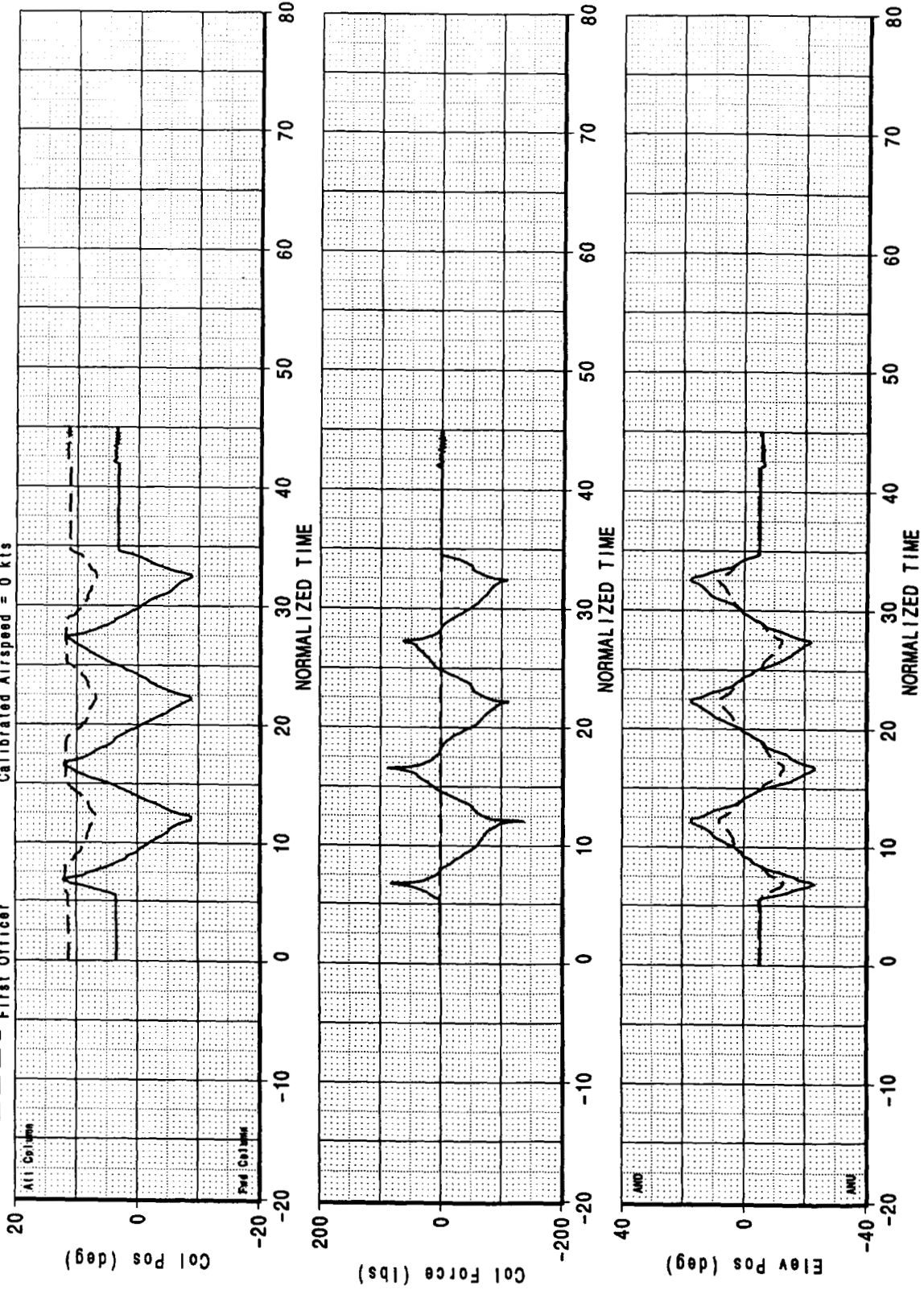


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PRELIMINARY

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 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



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EGYPT AIR INVESTIGATION  
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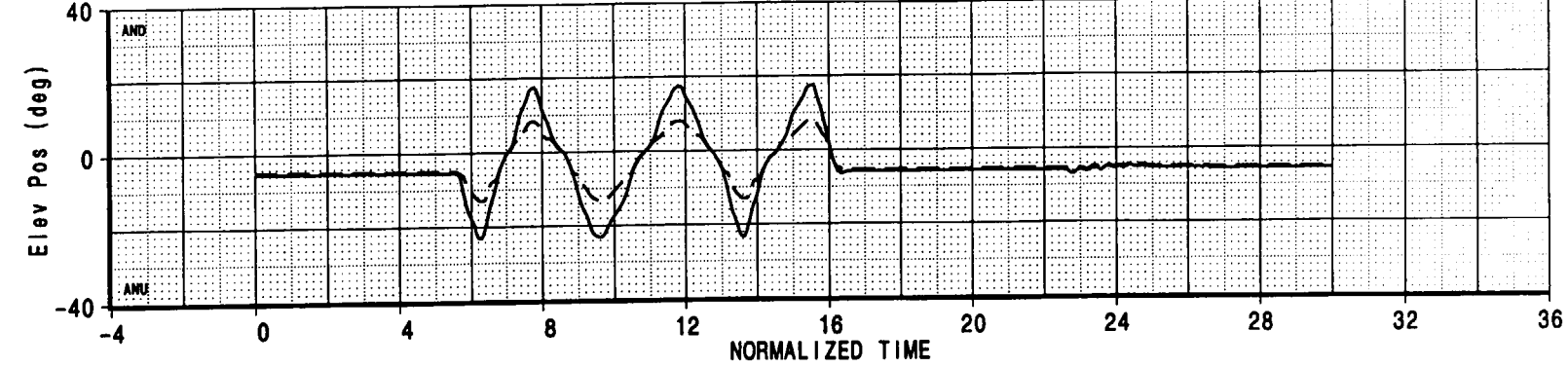
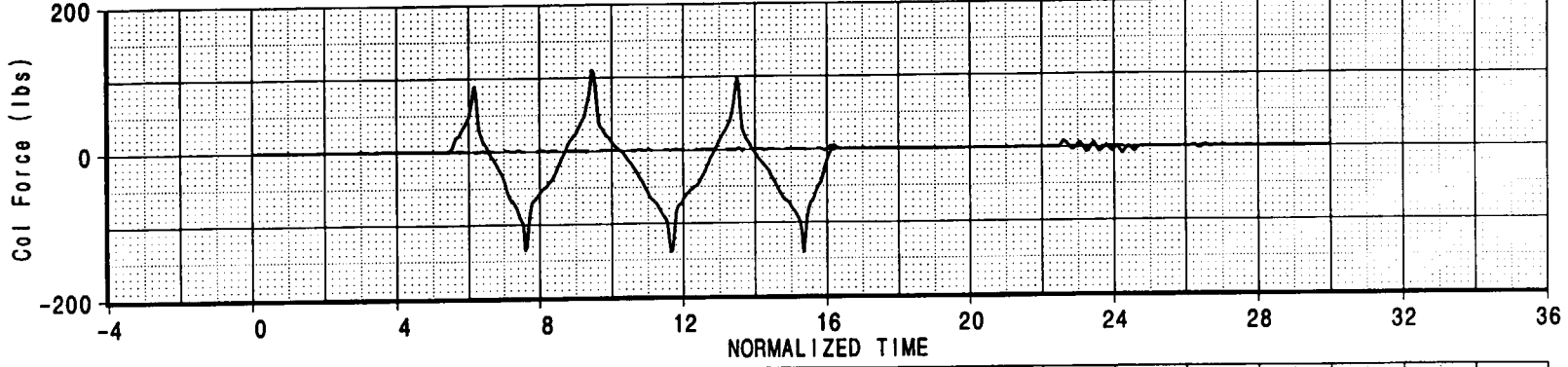
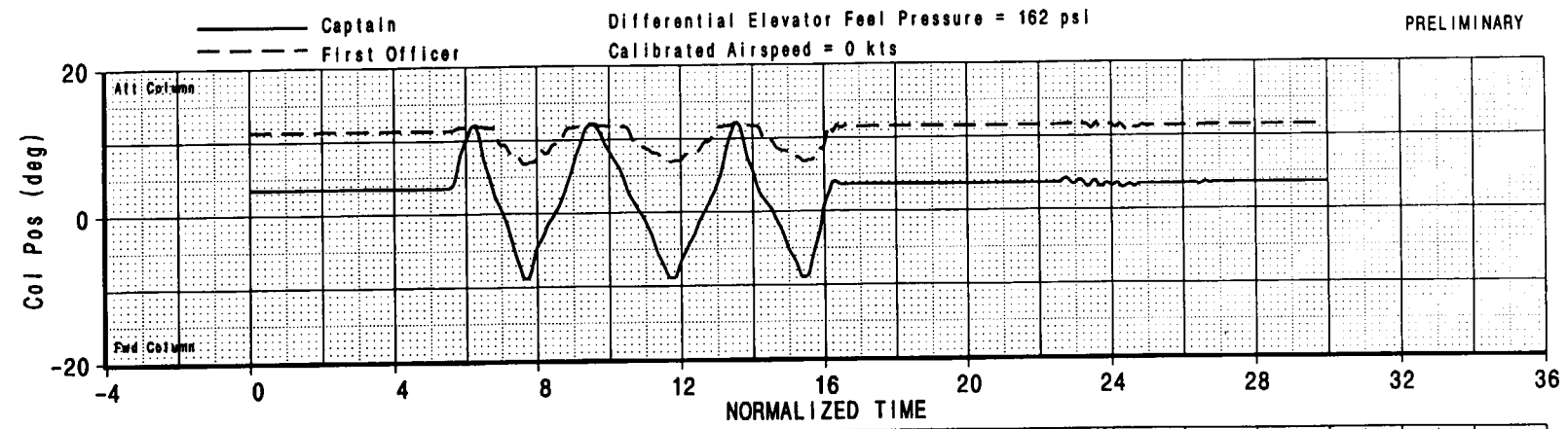


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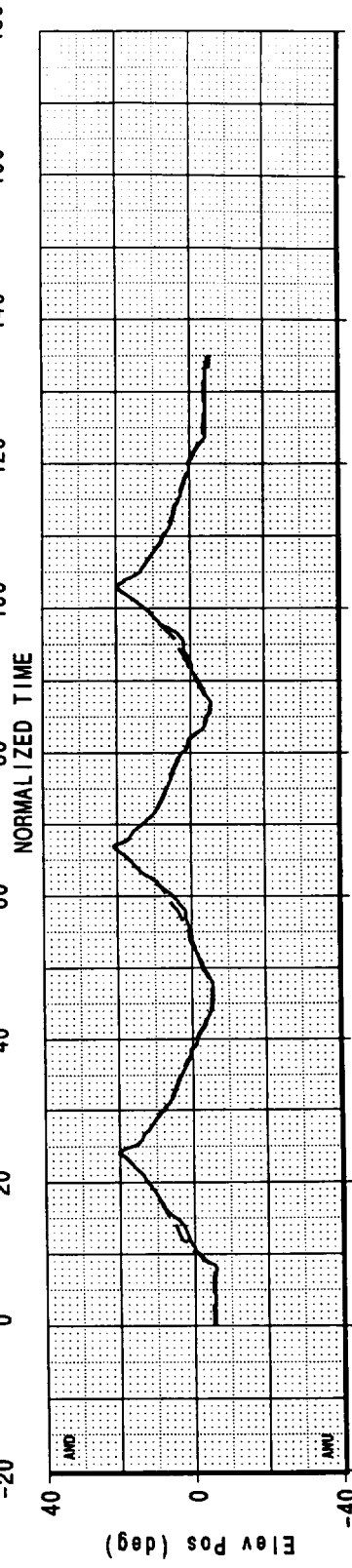
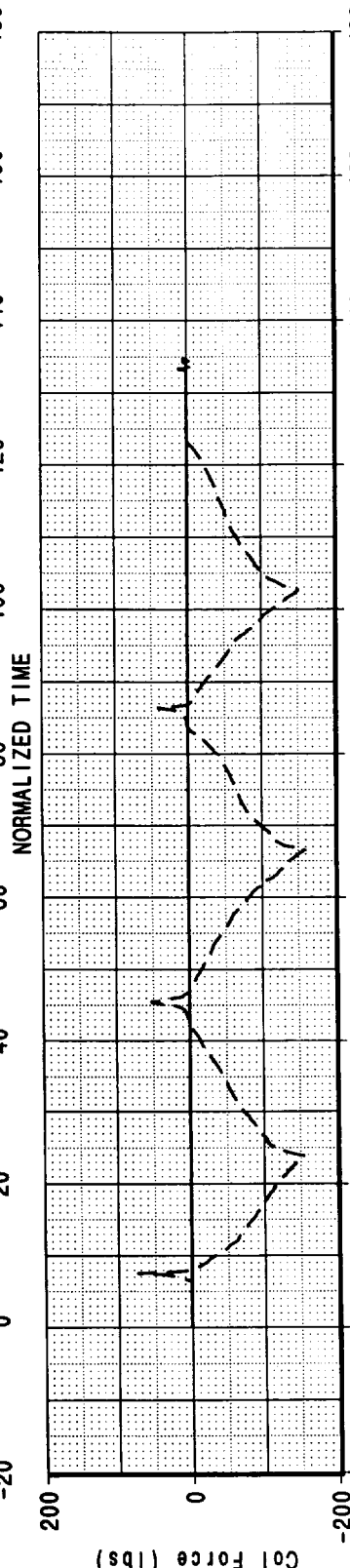
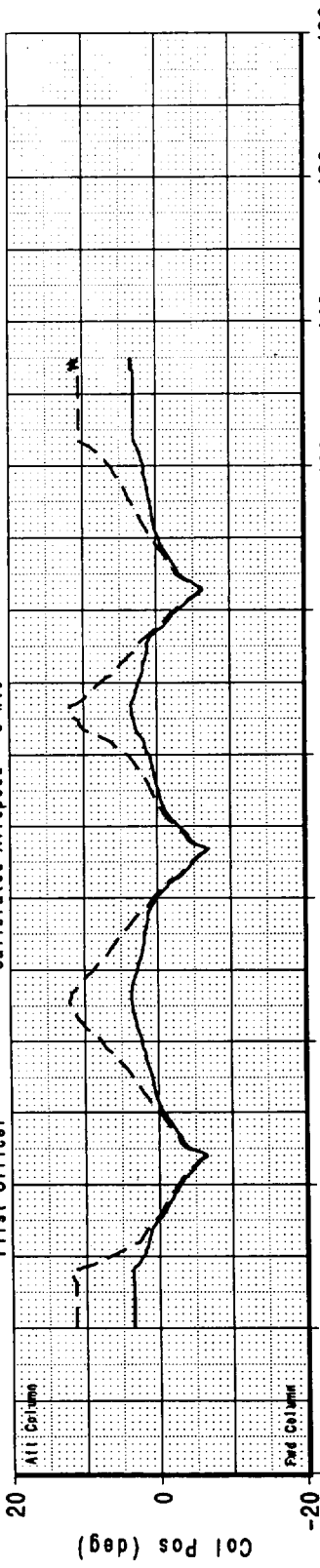


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PRELIMINARY

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 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



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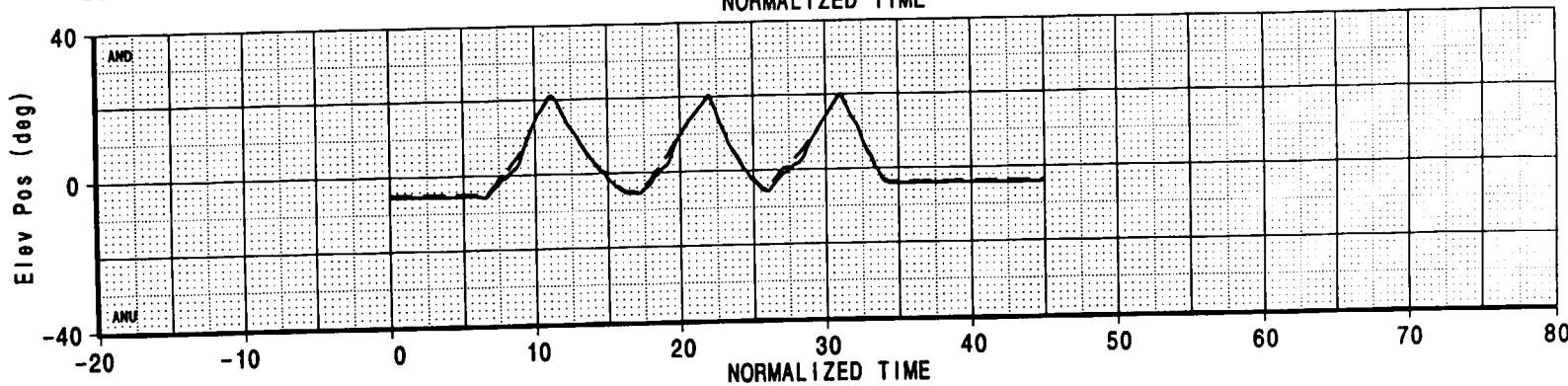
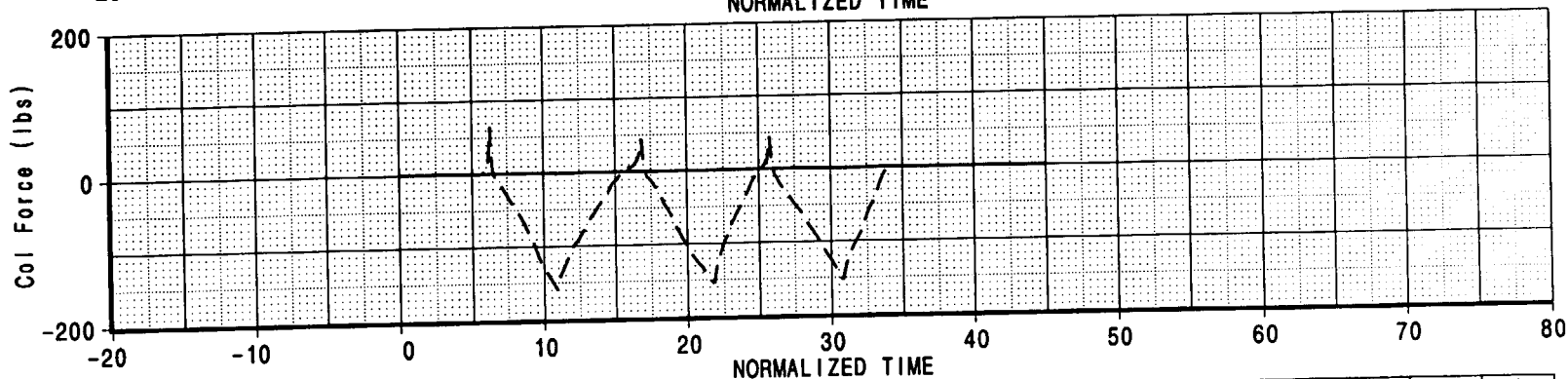
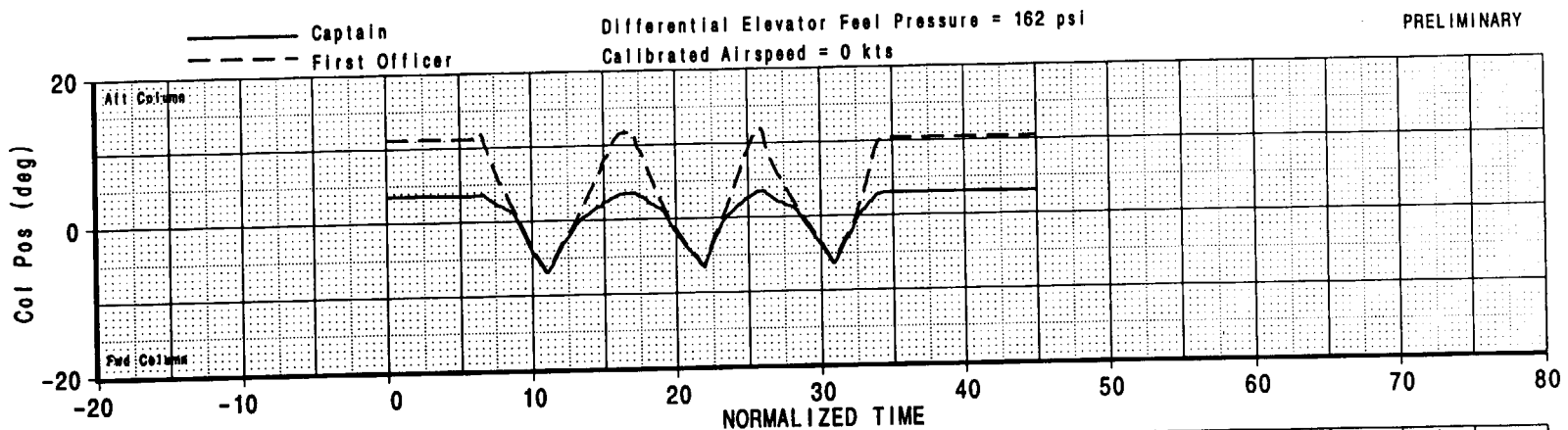
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 FWD CABLE BREAK/AFT CABLE JAM  
 F/O SLOW COLUMN SWEEPS - COND .086

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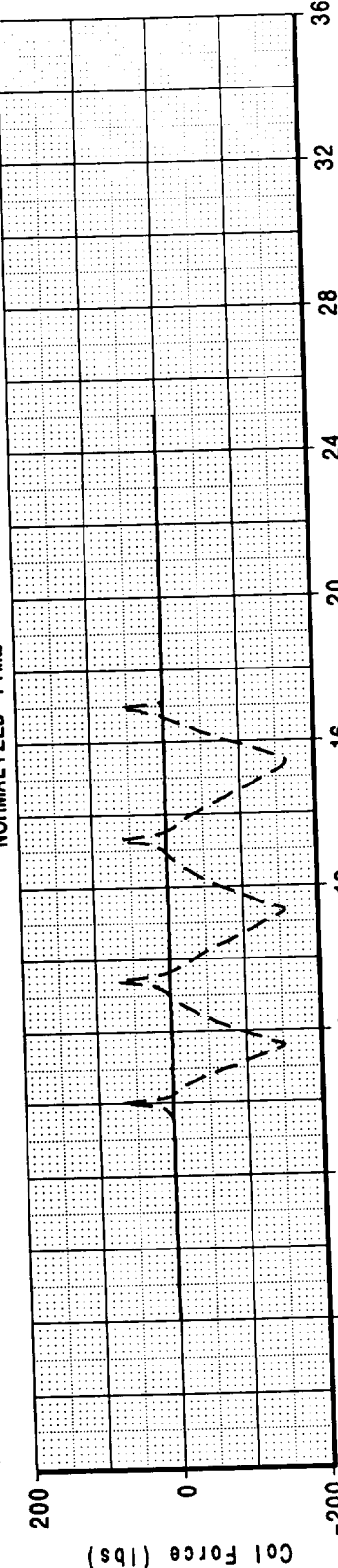
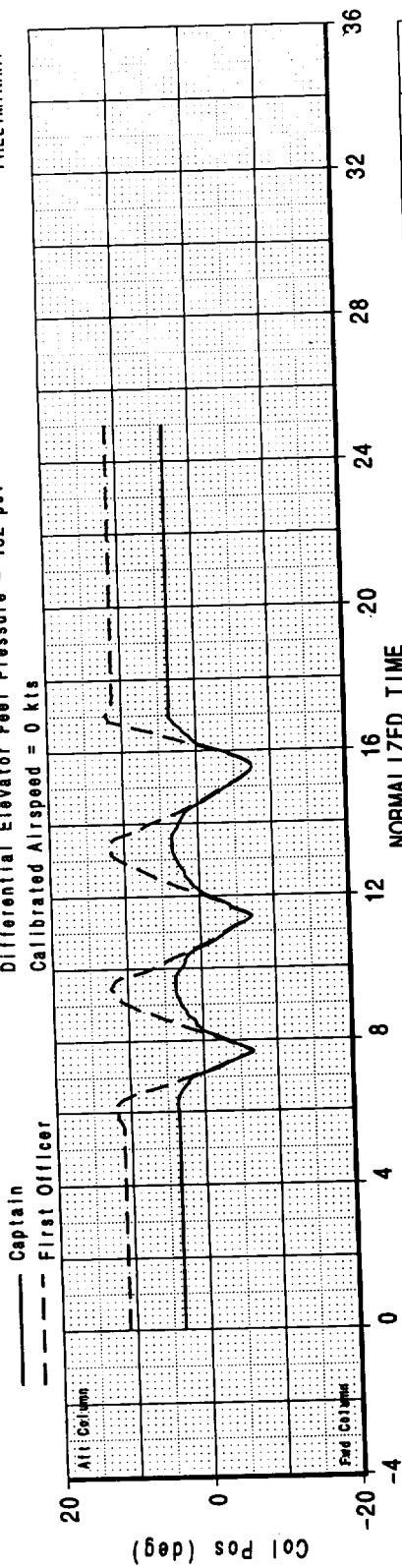
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Differential Elevator Feel Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

PRELIMINARY



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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/AFT CABLE JAM  
 F/O FAST COLUMN SWEEPS - COND .088



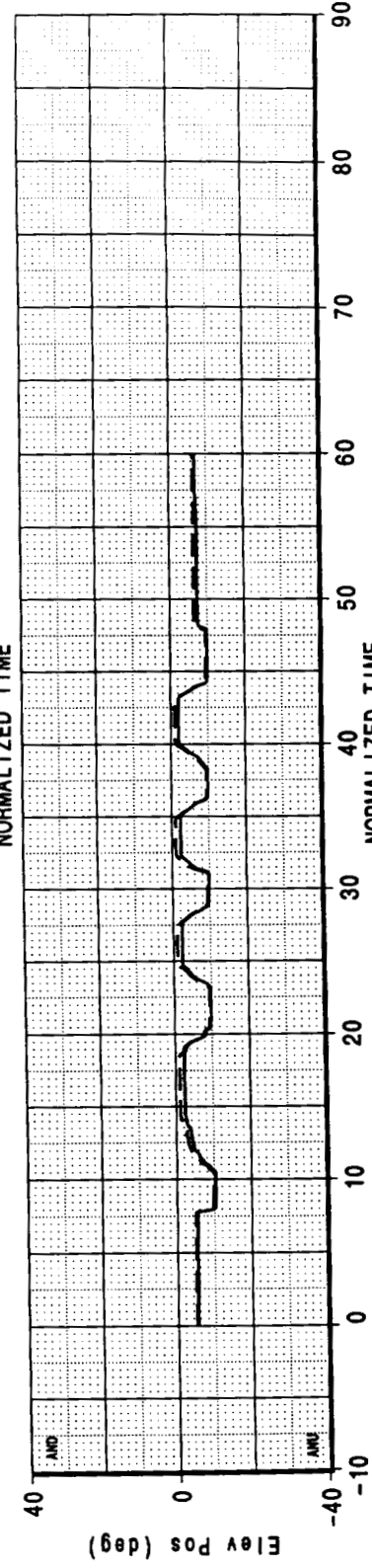
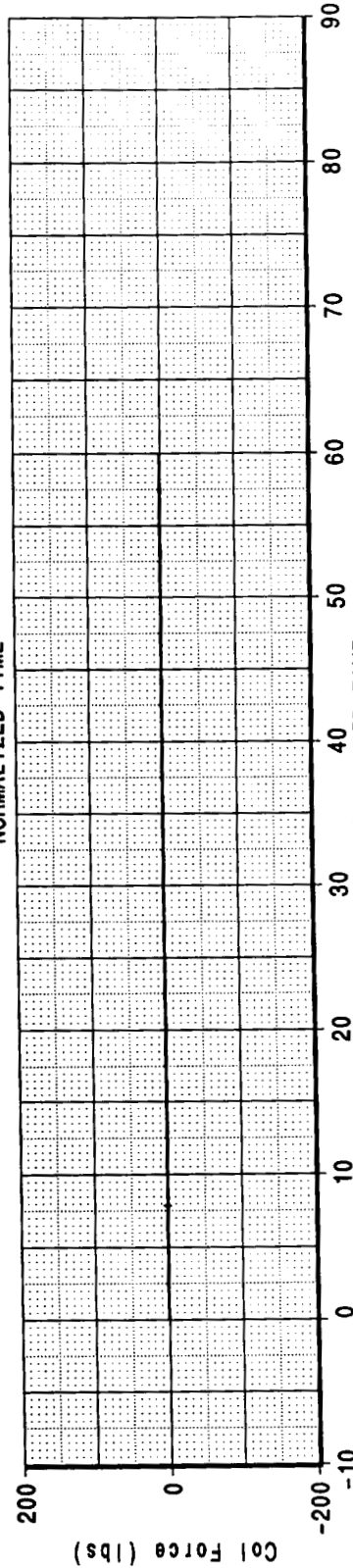
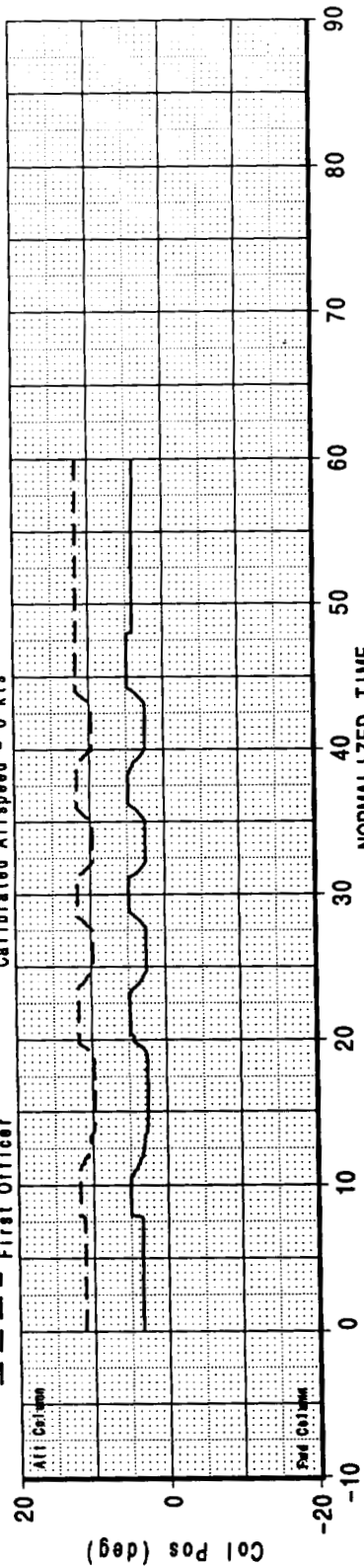
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PRELIMINARY

Differential Elevator Feel Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/AFT CABLE JAM  
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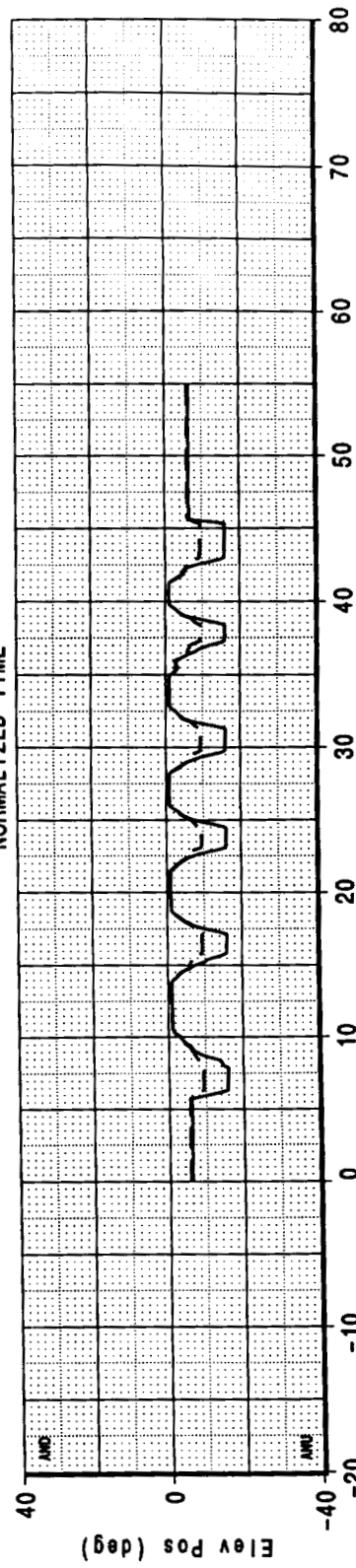
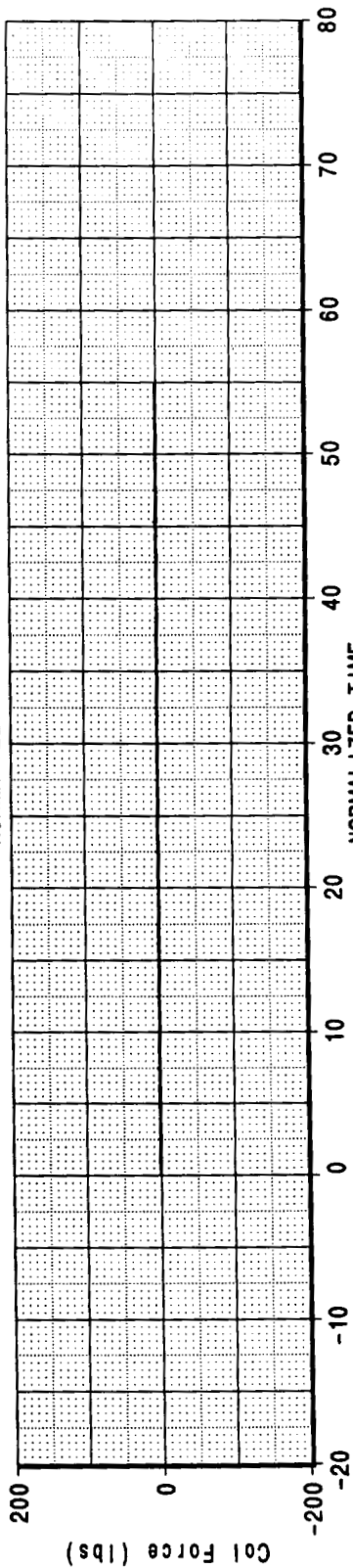
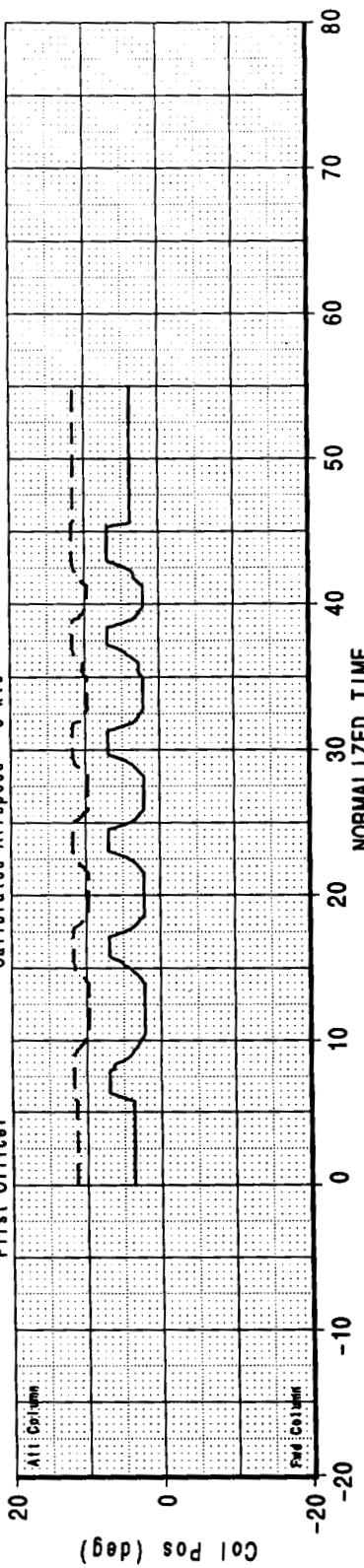
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PRELIMINARY

Differential Elevator Feel Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



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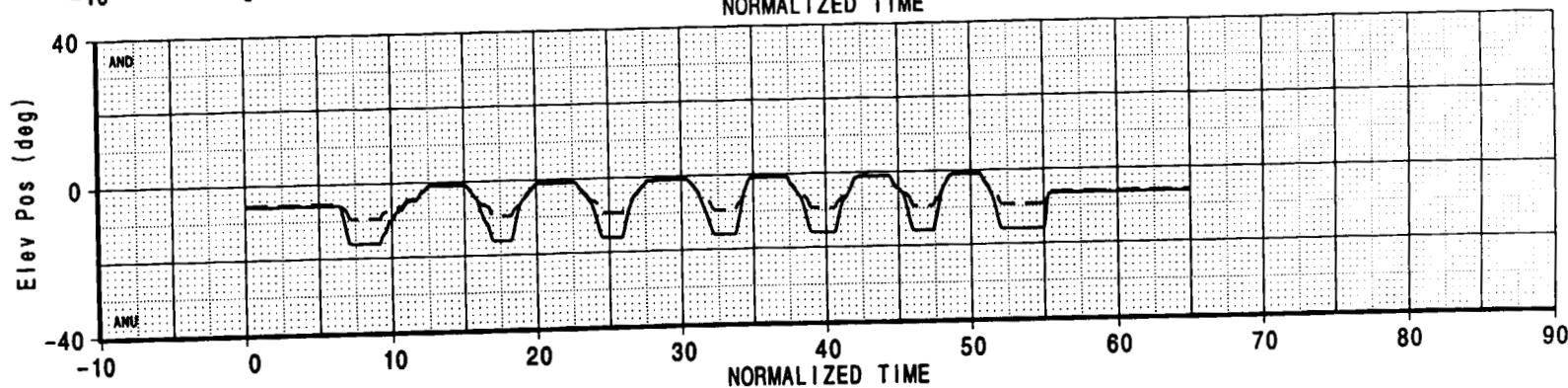
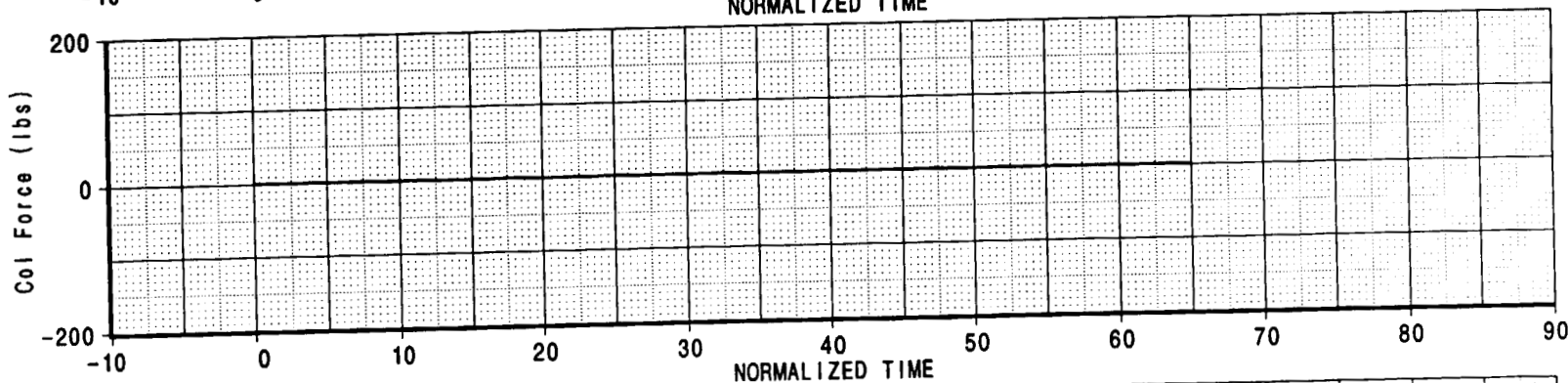
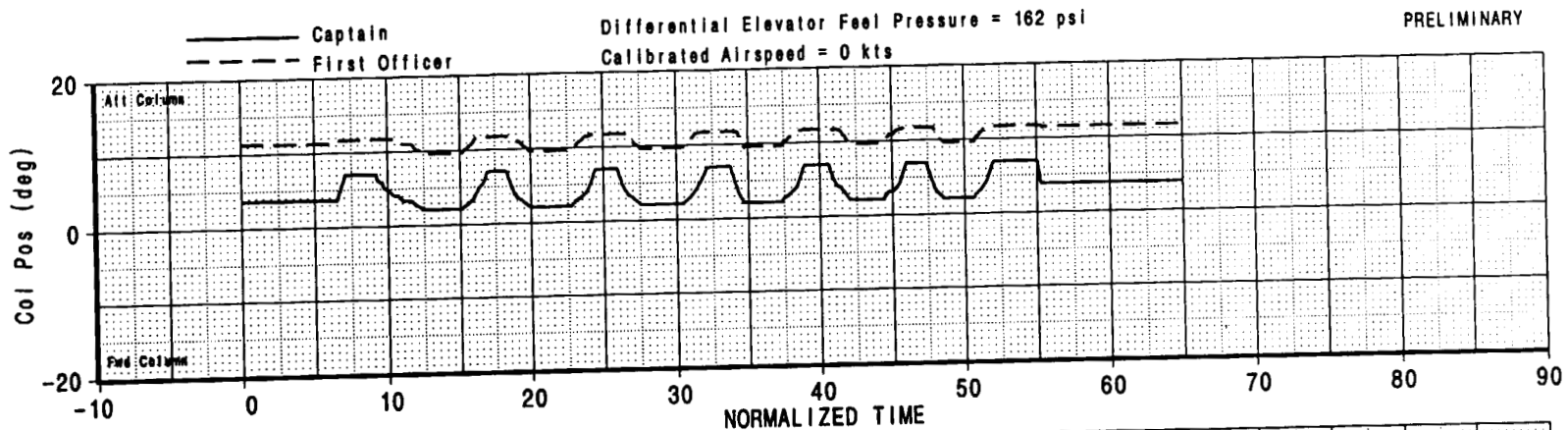
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 FWD CABLE BREAK/AFT CABLE JAM  
 C AUTOLPILOT SWEEPS - COND .090



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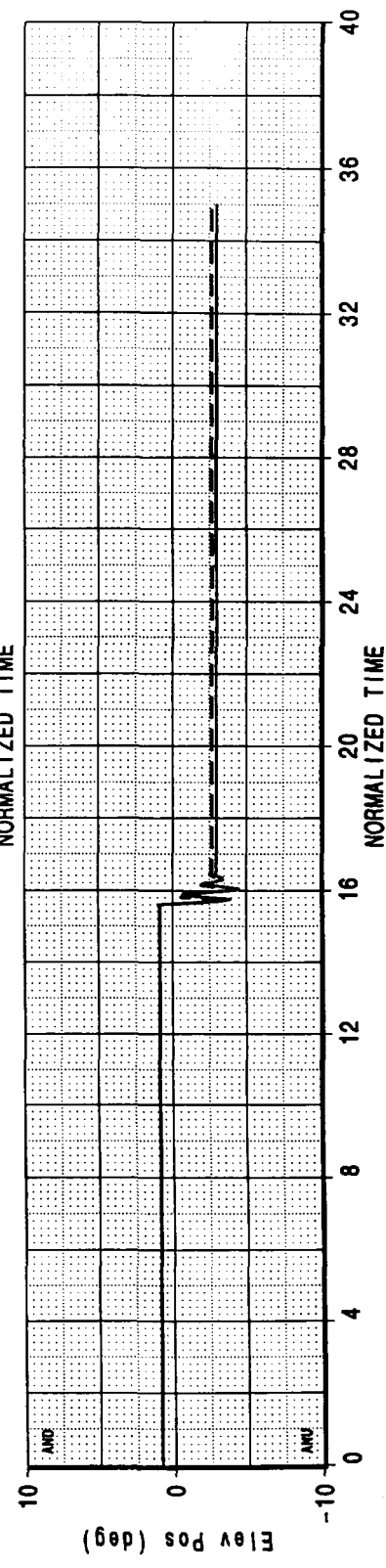
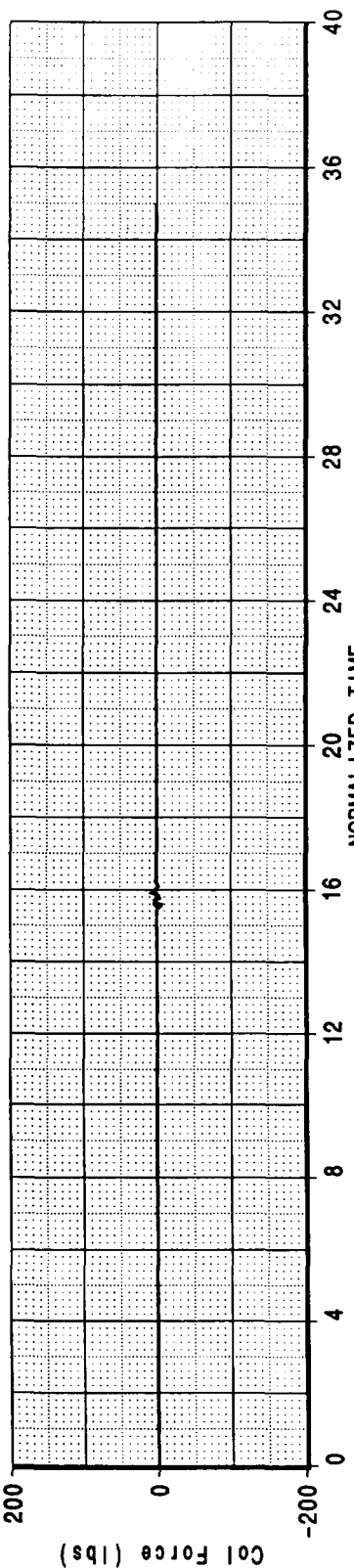
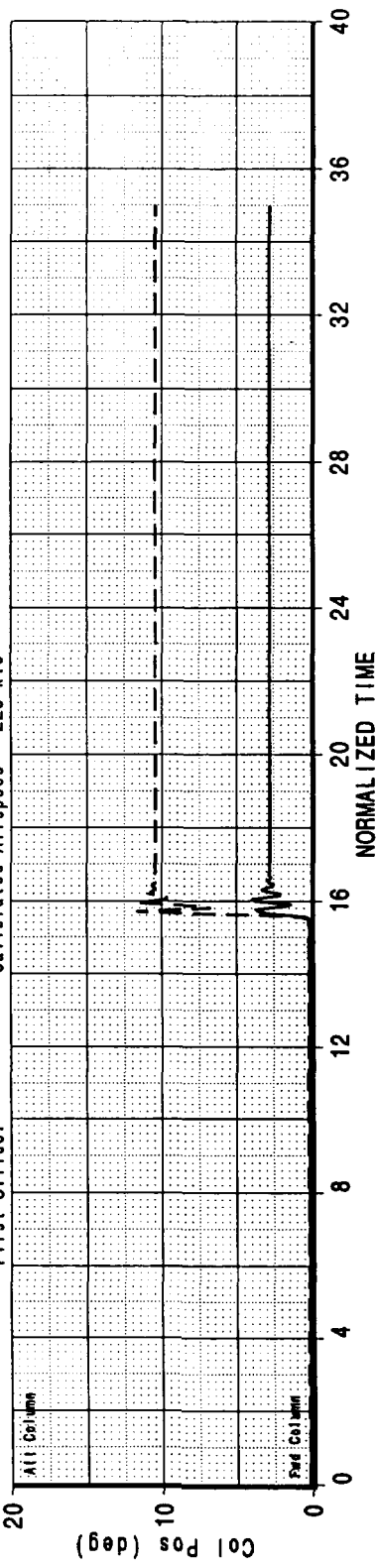
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PRELIMINARY  
 Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

--- Captain  
 --- First Officer



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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/AFT CABLE JAM  
 TRANSIENT RESPONSE - COND .092



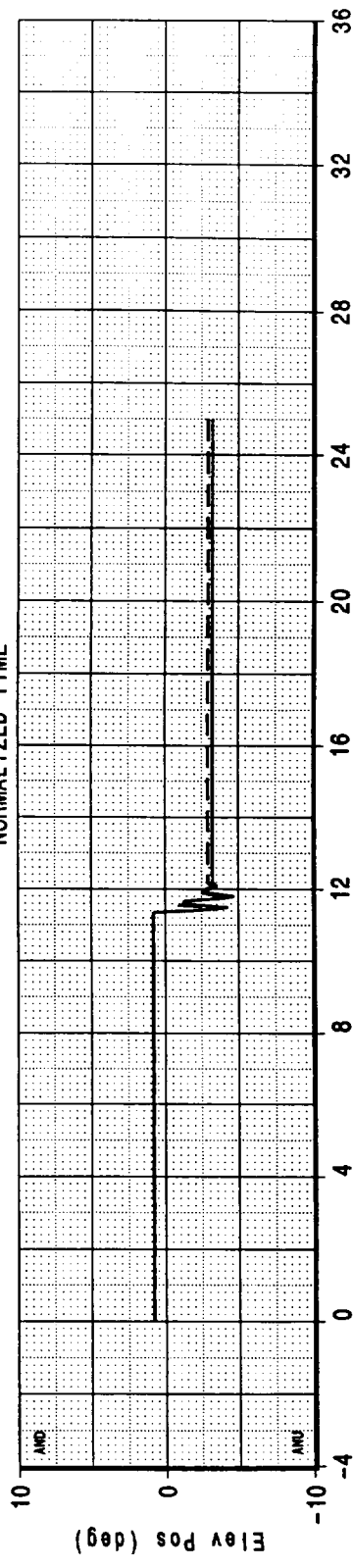
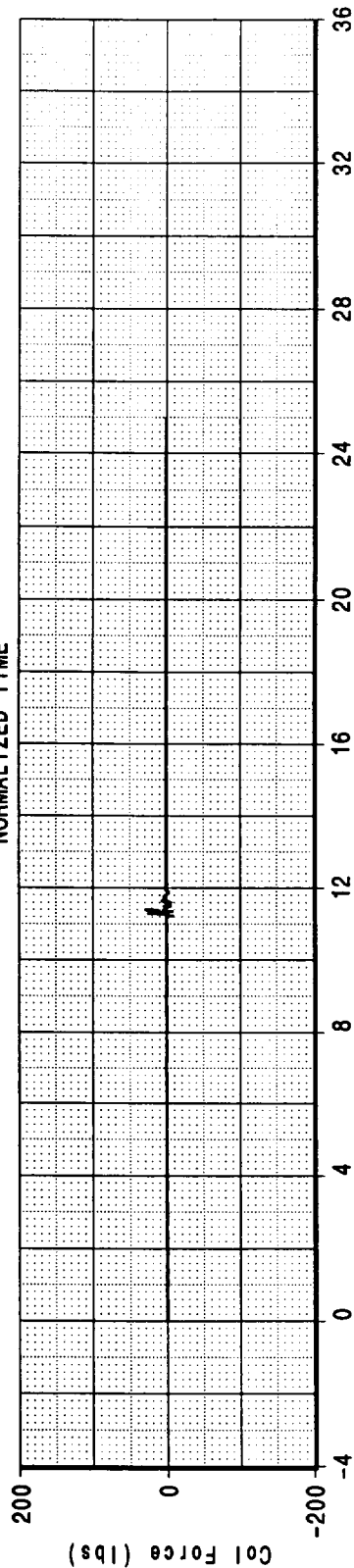
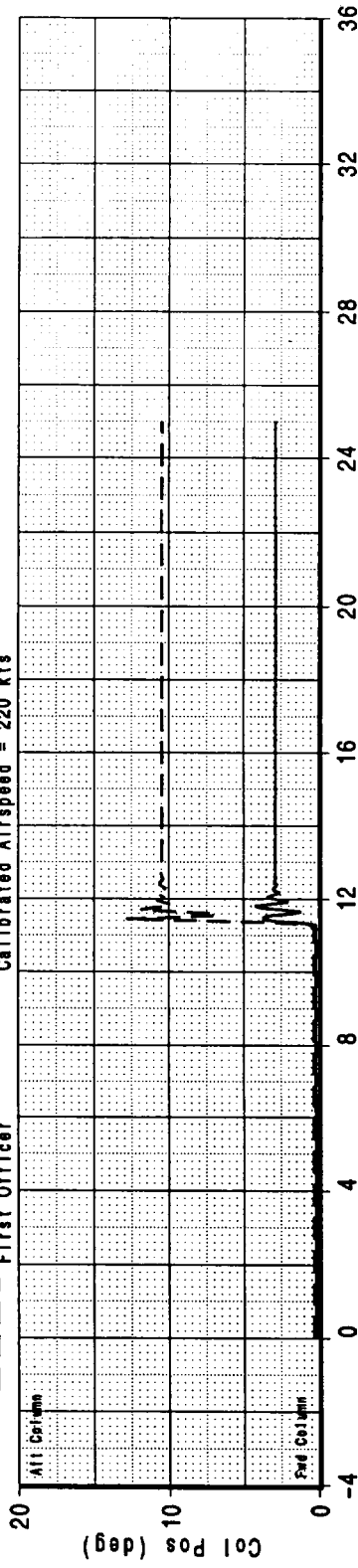
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PRELIMINARY  
 Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

----- Captain  
 ----- First Officer



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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/AFT CABLE JAM  
 TRANSIENT RESPONSE - COND .093

**BOEING**

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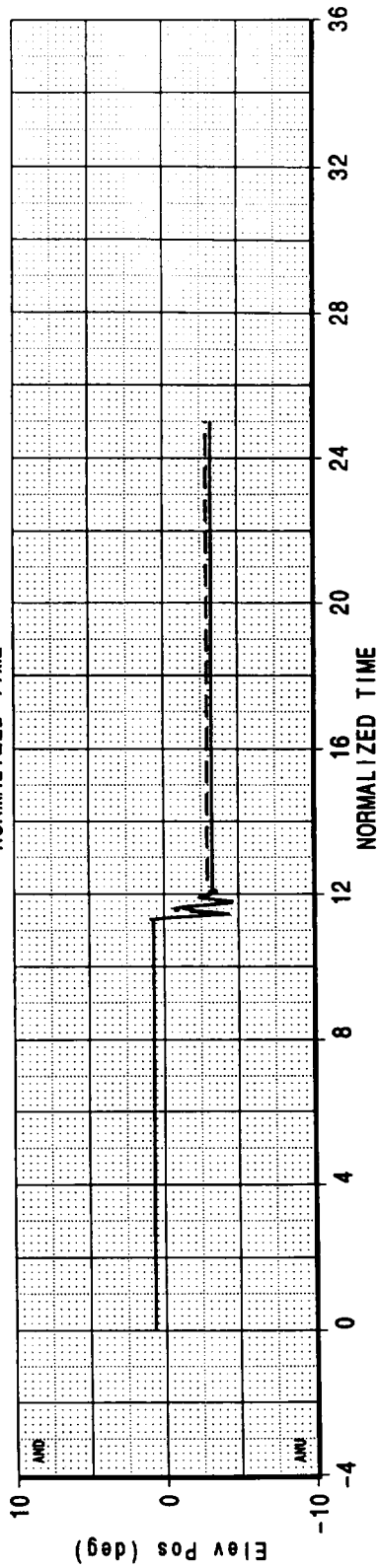
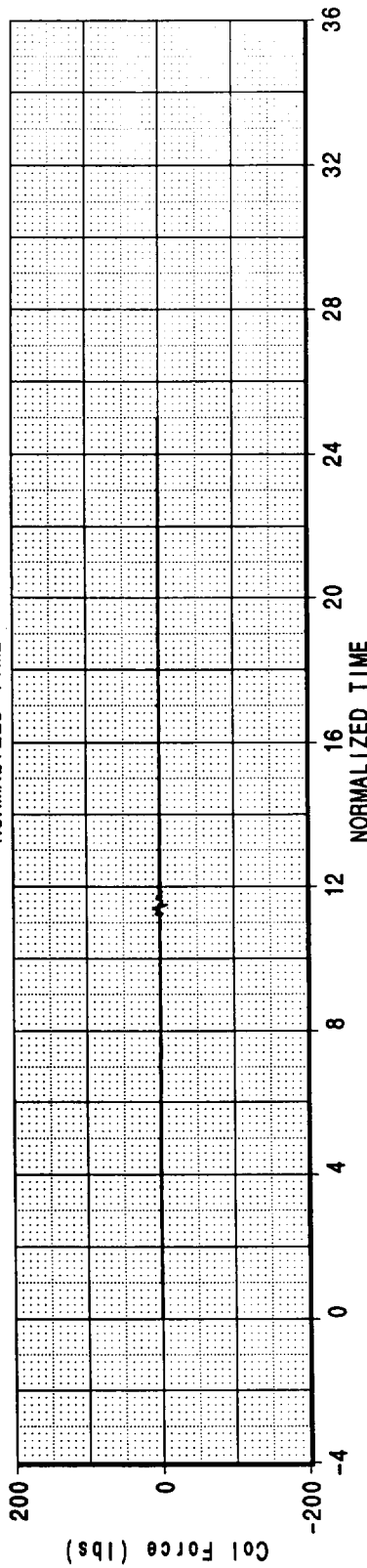
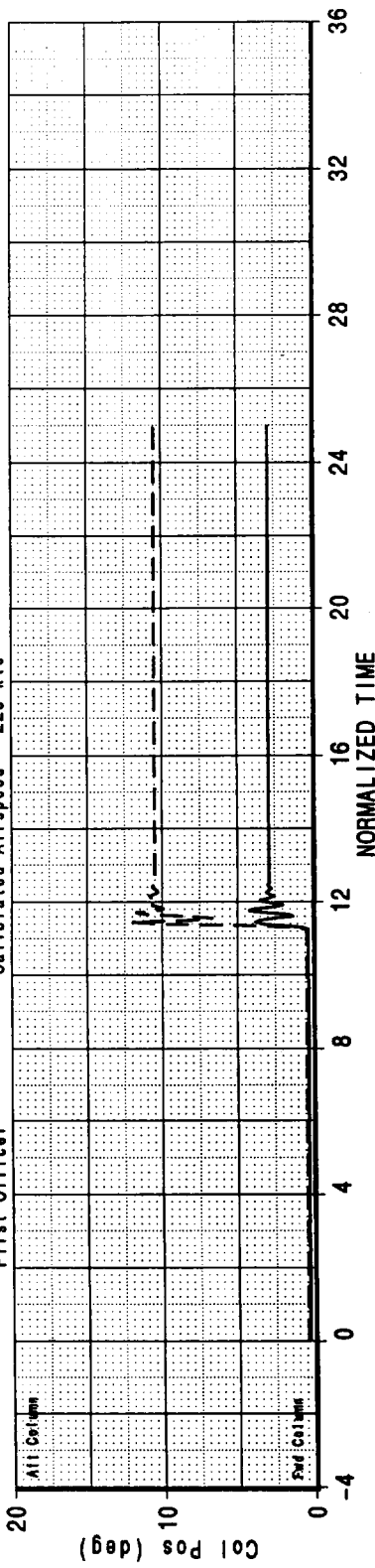
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08/28/01 14:02:40.0000-14:03:05.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY

Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer



[A]: /project/11ays/control\_sys/sys\_int/767/substate/multi/egyp\_alr/vr259\_g1\_000\_07/vr259\_000\_07\_4715\_000  
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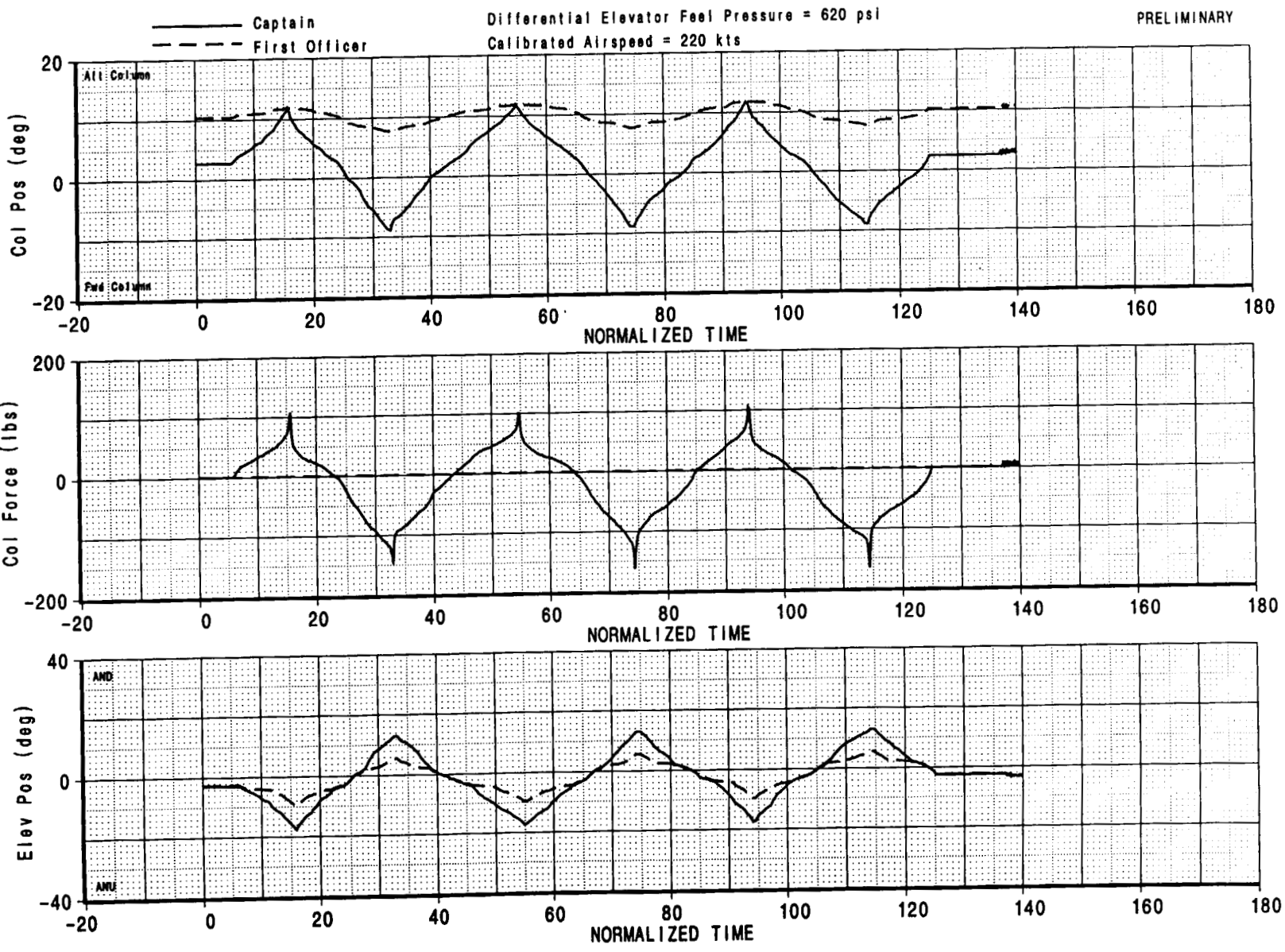
CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/AFT CABLE JAM  
 TRANSIENT RESPONSE - COND .094



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08/28/01 10:30:55.0000-10:33:15.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL



PRELIMINARY

CALC SEAN RUSSELL 29Aug01

REVISED DATE

EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/AFT CABLE JAM  
 CAPT SLOW COLUMN SWEEPS - COND .095



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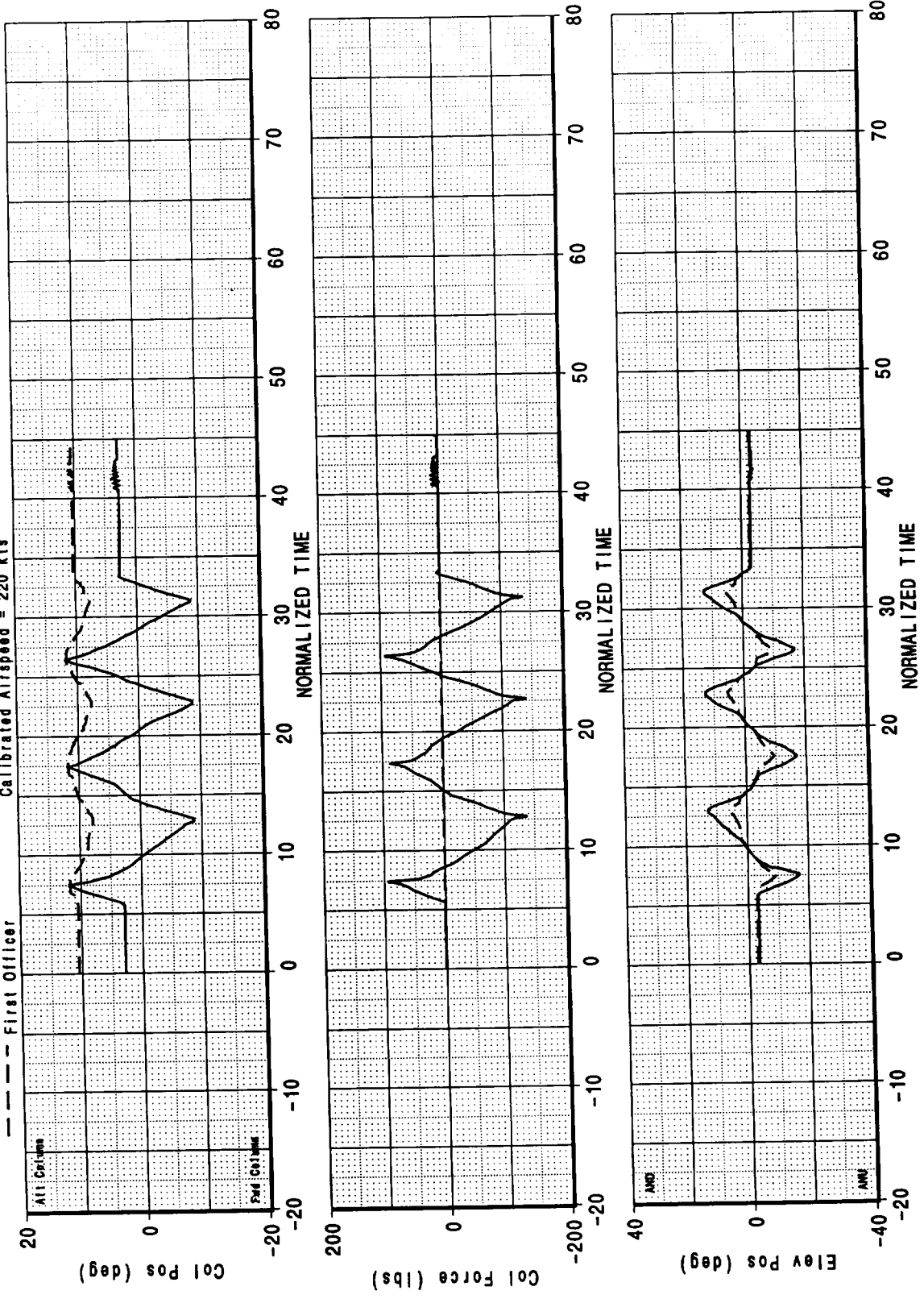
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08/28/01 10:34:45.0000-10:35:30.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer

PRELIMINARY



(A): /project/1110ygs/control\_swp/swp\_int/767/constain/mall110ygs/egypt\_n1r/vr259\_g1\_000\_07/VR259\_000\_07\_4715.nob  
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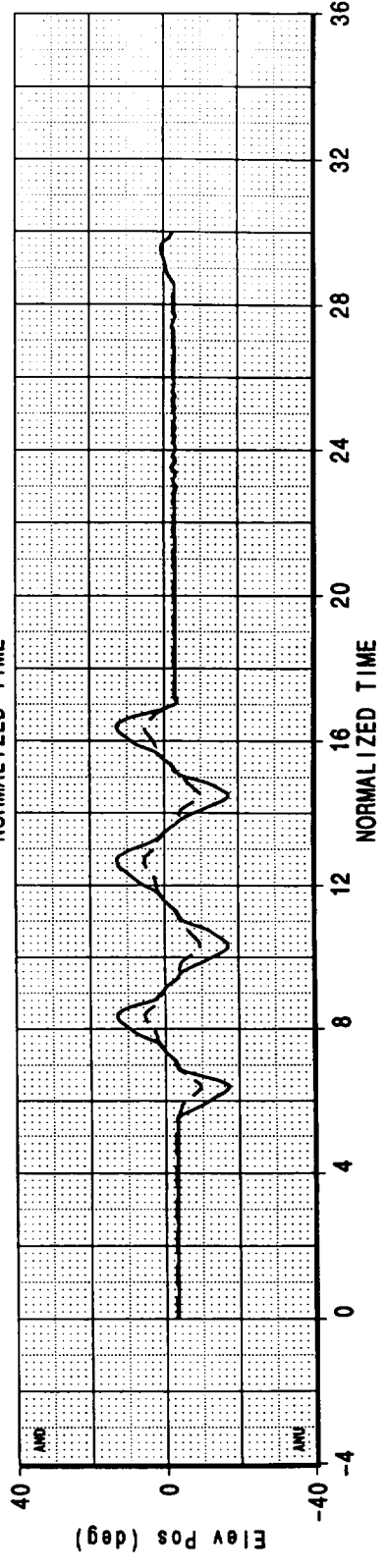
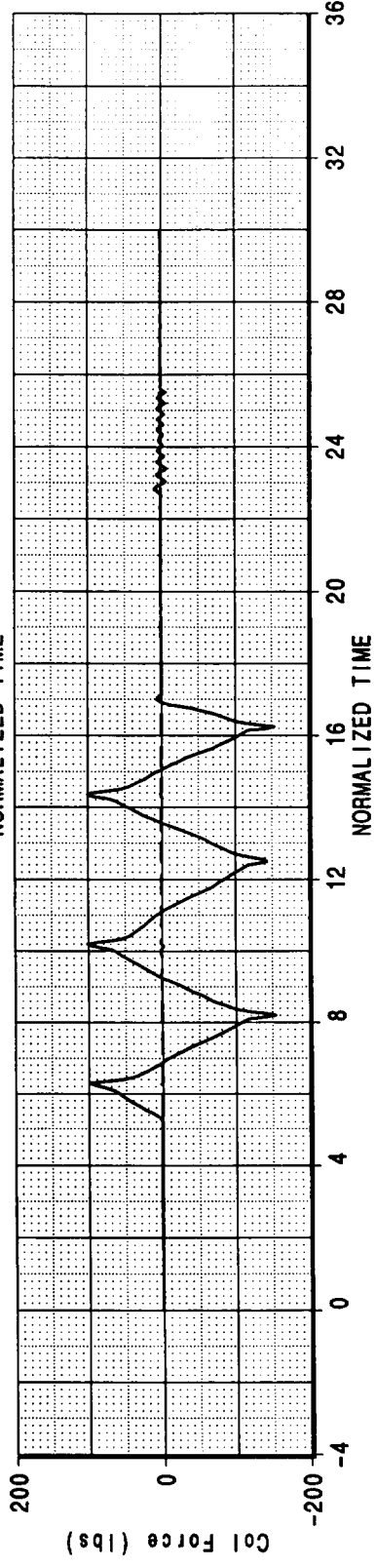
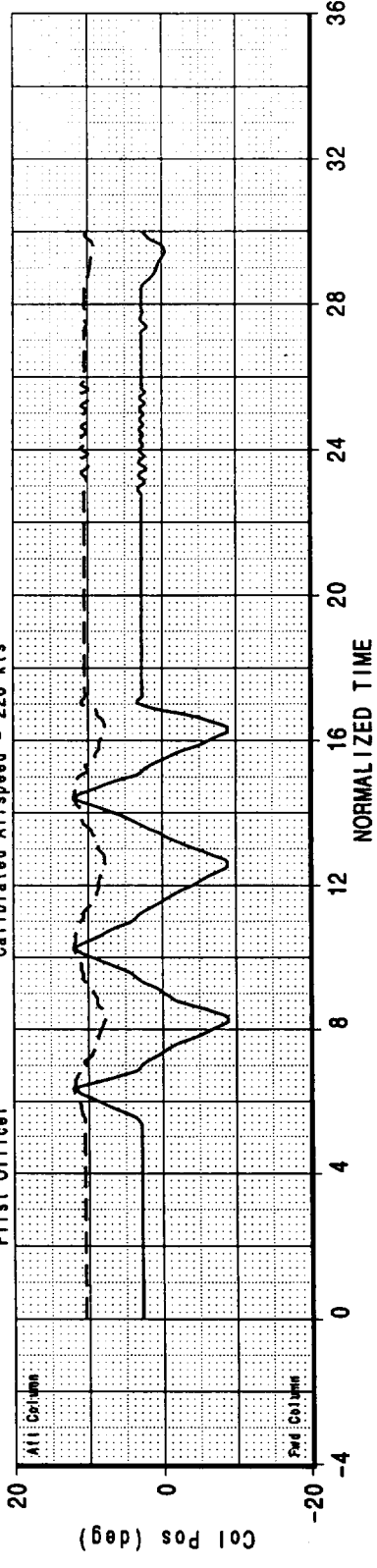
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE																		
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08/28/01 10:35:45.0000-10:36:15.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

PRELIMINARY

— Captain  
 - - - First Officer



[A]: j:\project\11days\control\_sys\sys\_int\767\control\multisys\egypt\_01\vr259\_st\_000\_07\VR259\_000\_07\_4715.asb  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/AFT CABLE JAM  
 CAPT FAST COLUMN SWEEPS - COND .097



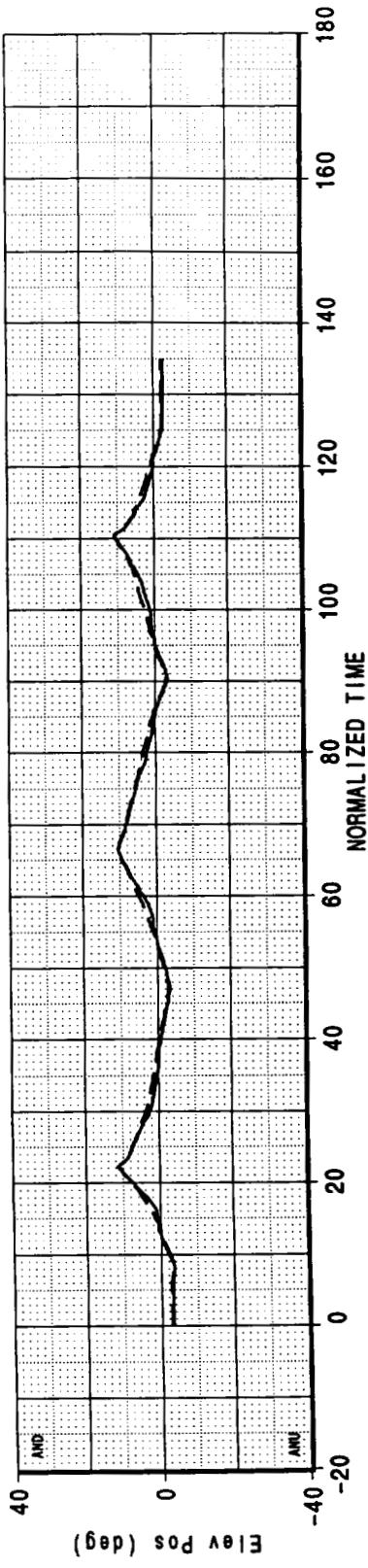
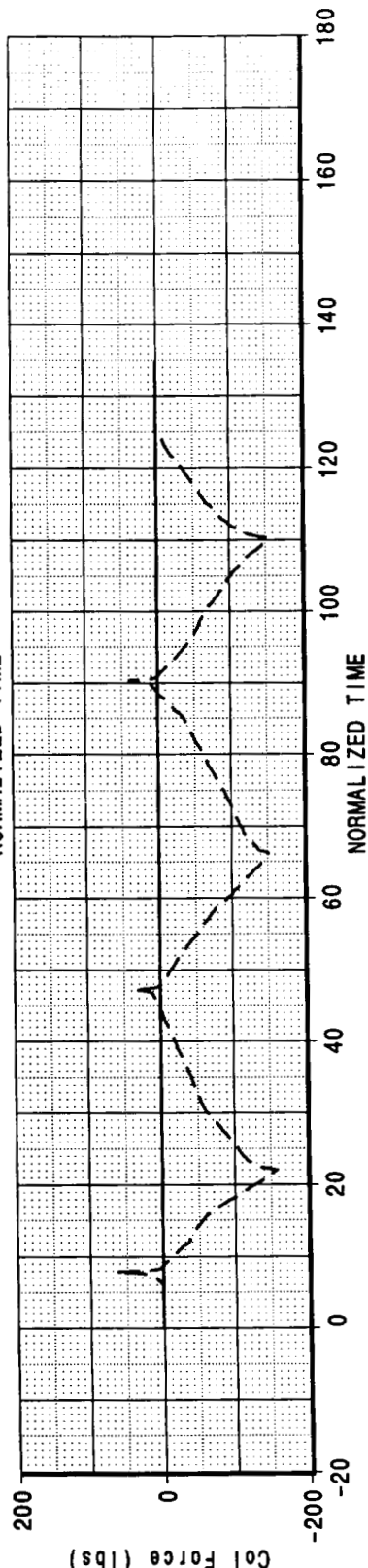
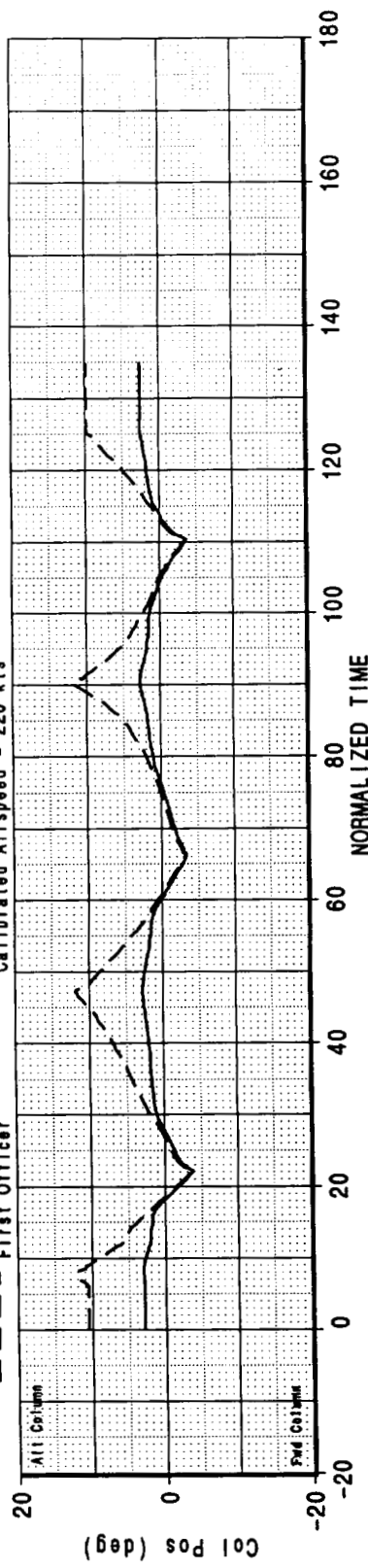
767-300F  
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08/28/01 10:37:00.0000-10:39:15.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY

Differential Elevator Feel Pressure = 620 psi  
Calibrated Airspeed = 220 kts

— Captain  
- - - First Officer



(A): /project/111ays/control\_ays/sys\_int/767/insteln/multilays/egpp1\_01/vr259\_01\_000\_07/vr259\_000\_07\_4715\_00b  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
FWD CABLE BREAK/AFT CABLE JAM  
F/O SLOW COLUMN SWEEPS - COND .098

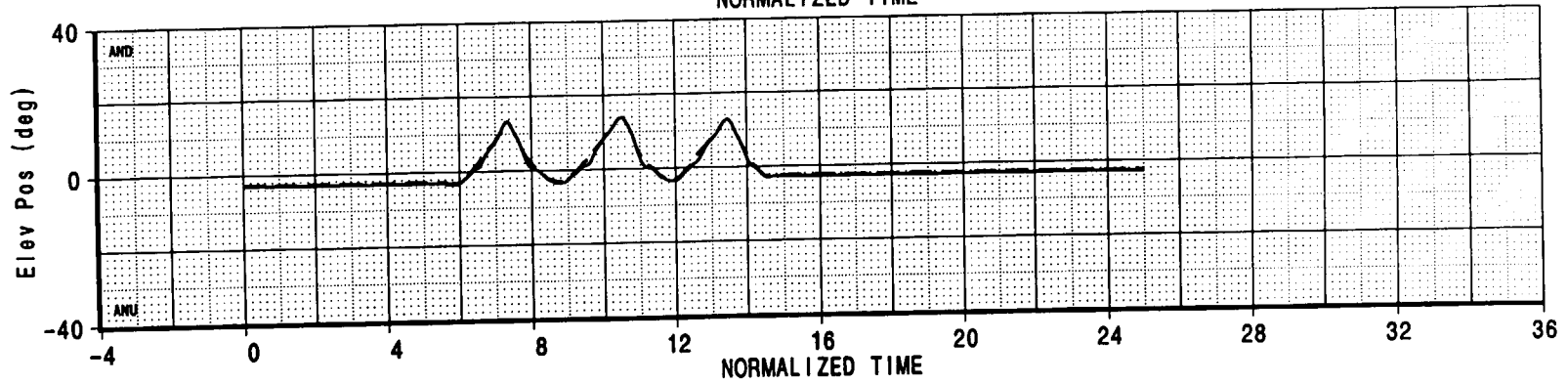
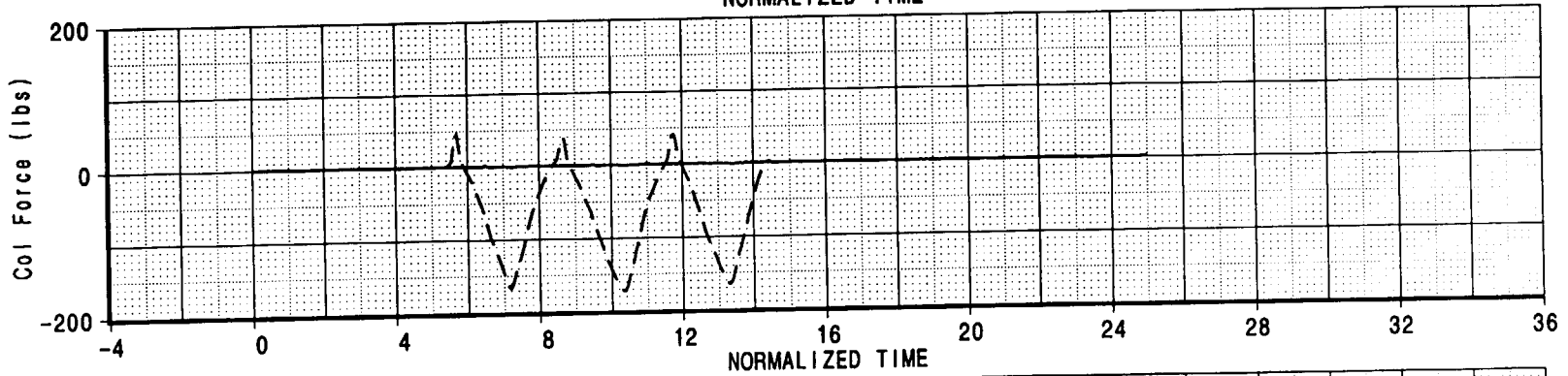
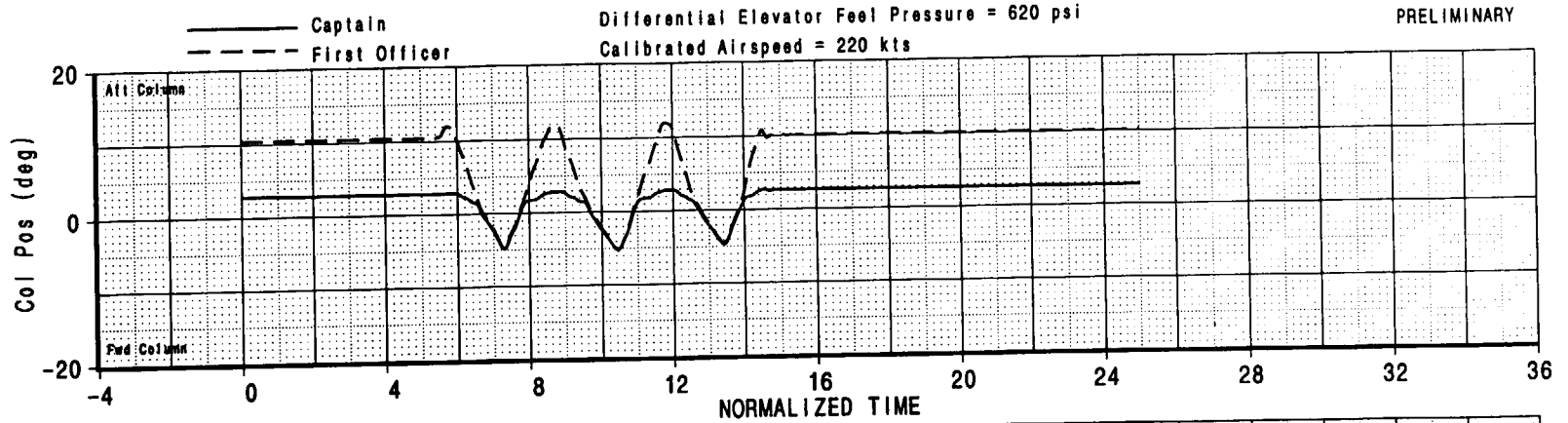


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08/28/01 10:41:15.0000-10:41:40.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY



[A]: /project/ltt/ops/control\_sys/eye\_int/767/sustain/multi/eye/egypt\_air/vr259\_g1\_000\_07/vr259\_000\_07.4715.evb  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION FMD CABLE BREAK/AFT CABLE JAM F/O FAST COLUMN SWEEPS - COND .100				
				767-300F VR259
PAGE				Test Date: 28-Aug-01

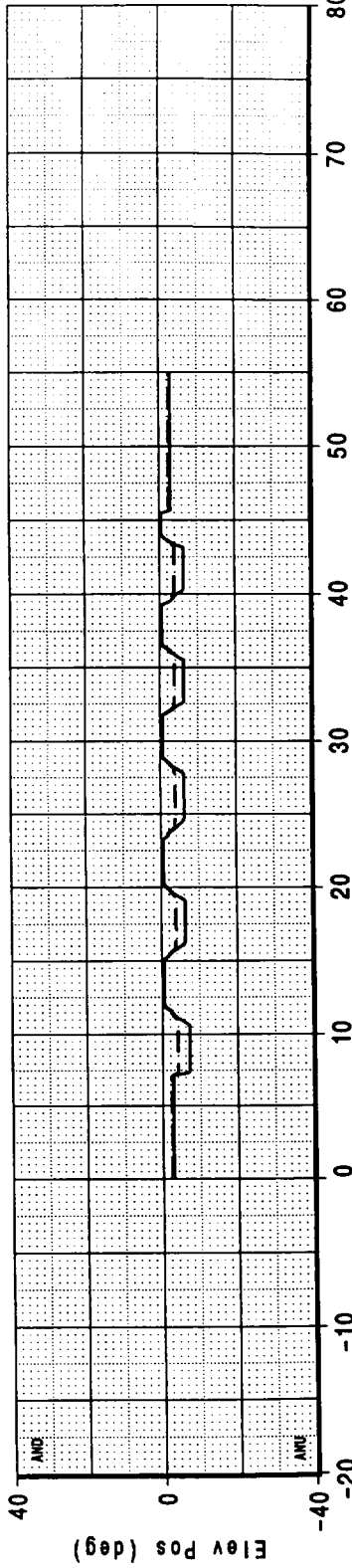
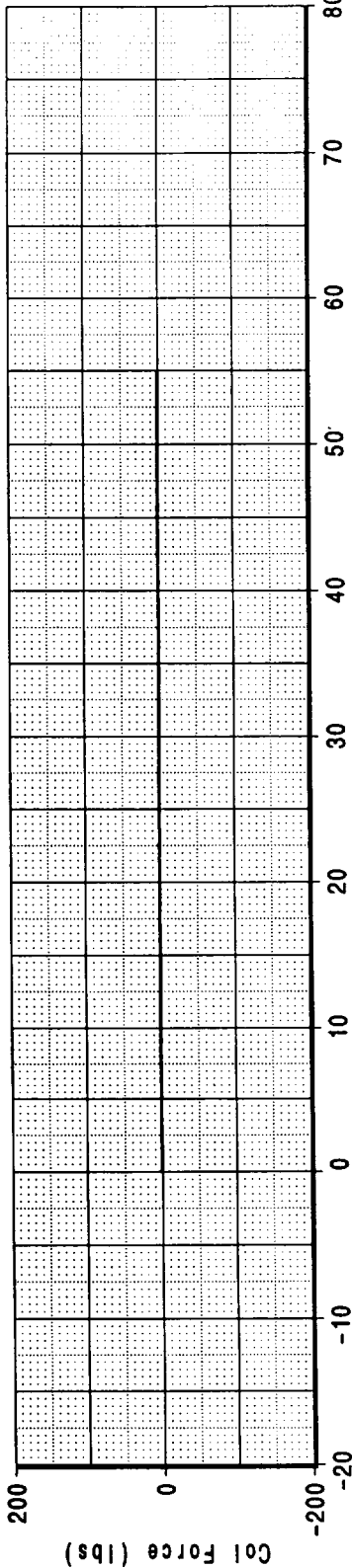
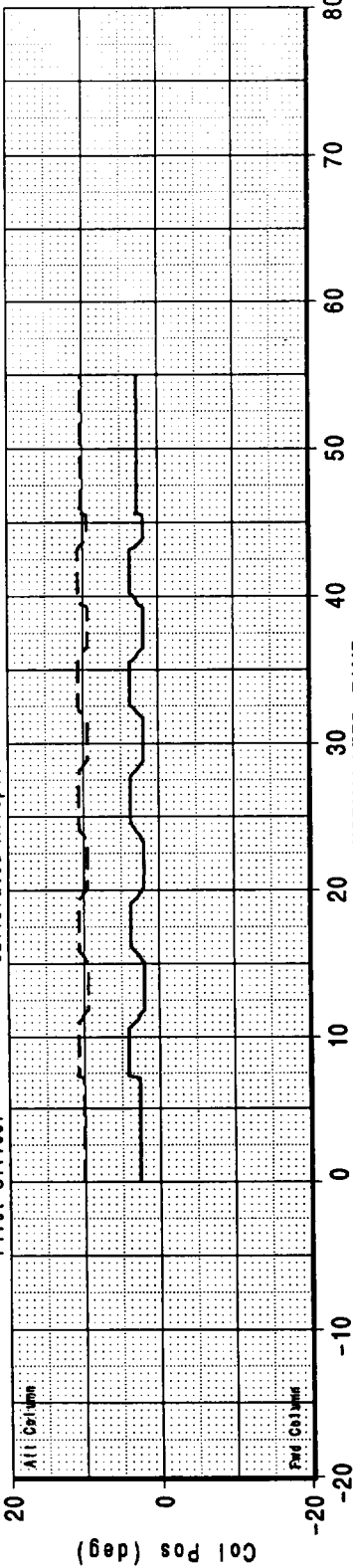


08/28/01 10:43:10.0000-10:44:05.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer

PRELIMINARY



[A]: /project/111sys/control\_aya/sys\_int/767/austaln/multisys/egypt/air/vr259\_01\_000\_07/VR259\_000\_07\_4715.eeb  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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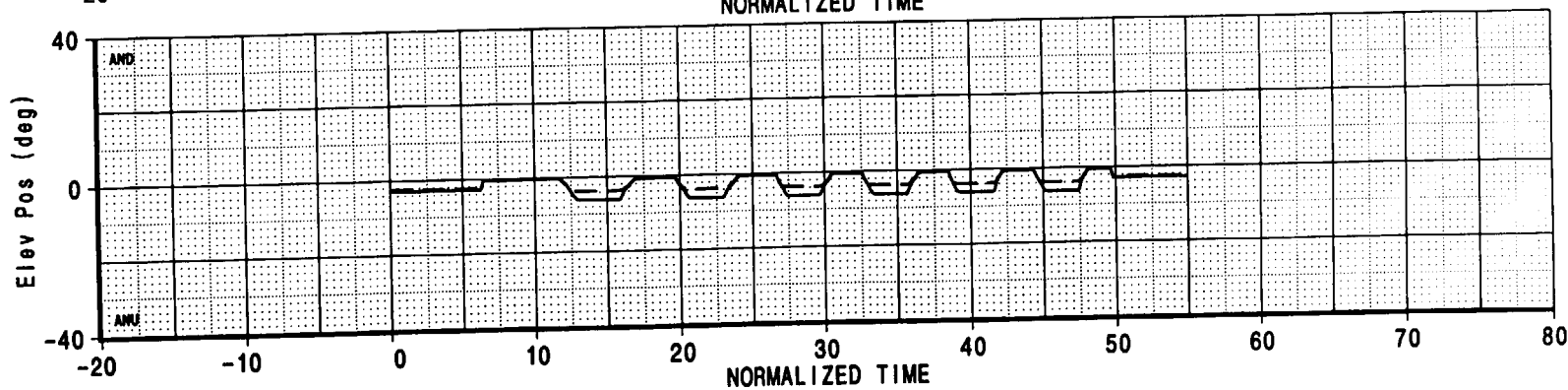
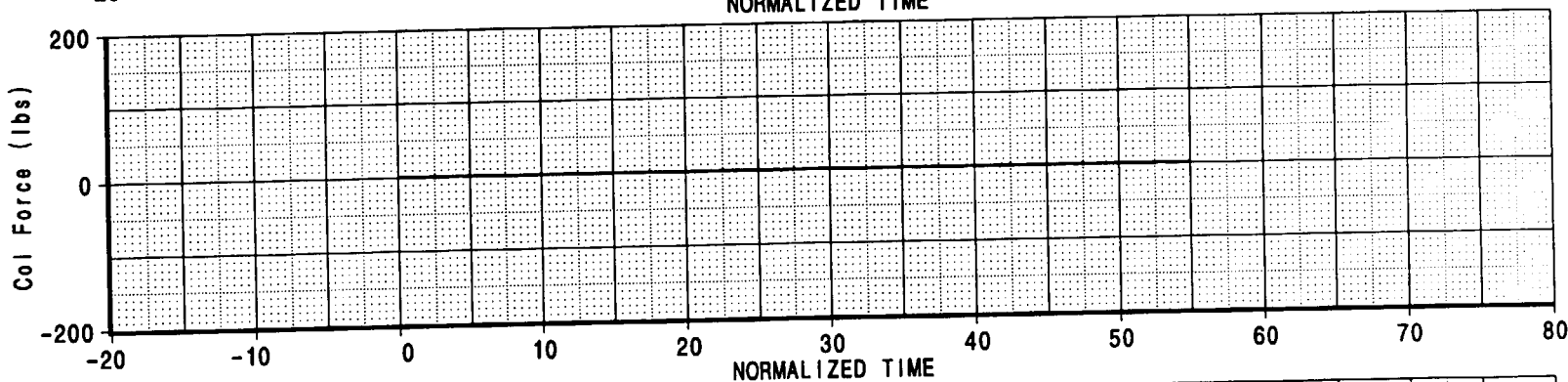
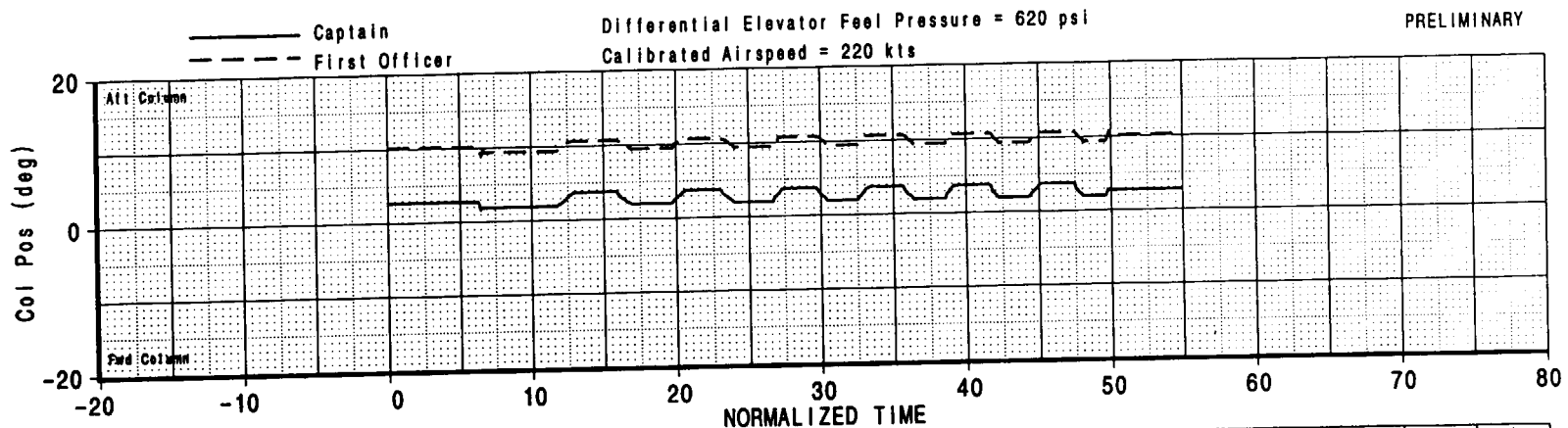
EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/AFT CABLE JAM  
 L AUTOPILOT SWEEPS - COND .101

**BOEING**

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08/28/01 10:45:40.0000-10:46:35.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY



[A]: /project/fitops/control\_sys/sys\_int/767/sustain/multiops/egypt\_air/vr259\_gt\_000\_07/VR259.000\_07.4715.eob  
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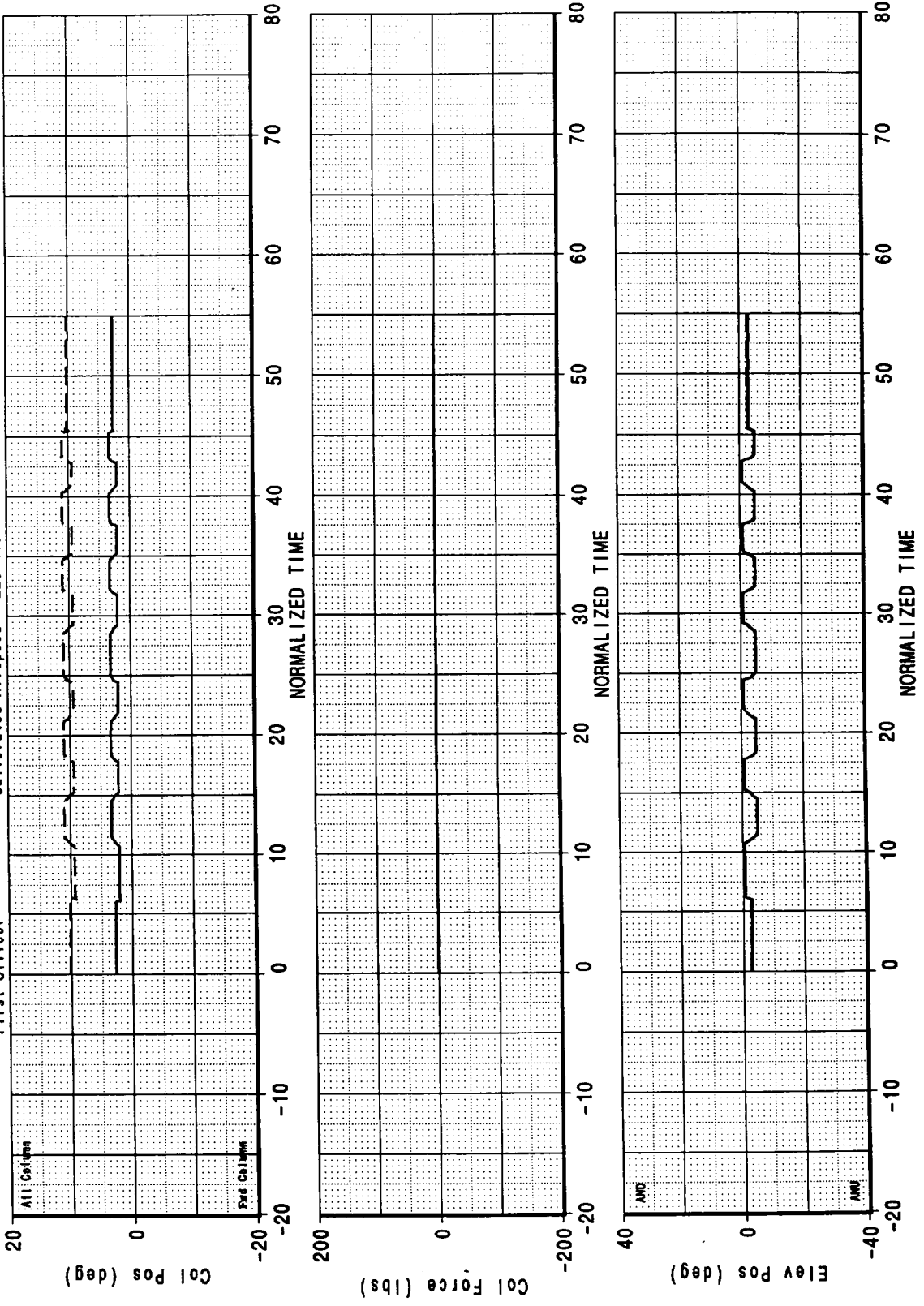
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EGYPT AIR INVESTIGATION FWD CABLE BREAK/AFT CABLE JAM C AUTOPILOT SWEEPS - COND .102				
				767-300F
				VR259
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08/28/01 10:47:55.0000-10:48:50.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer

PRELIMINARY



[A]: /project/11103/control\_swp/egyp\_101/767/instaln/multilkeys/egyp1\_01\_000\_07/VR259\_000\_07\_4715.eab  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/AFT CABLE JAM  
 R AUTOPILOT SWEEPS - COND .103



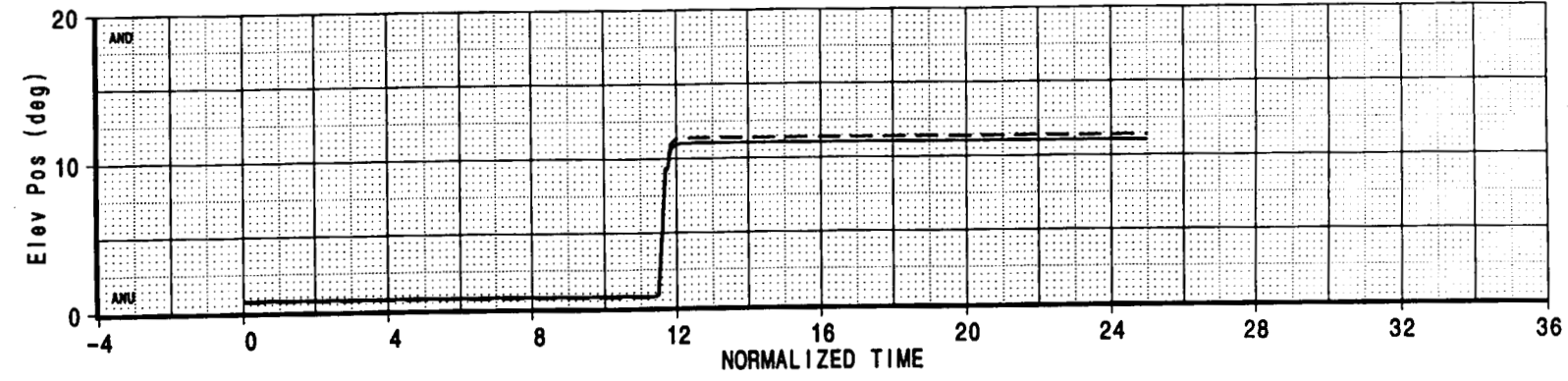
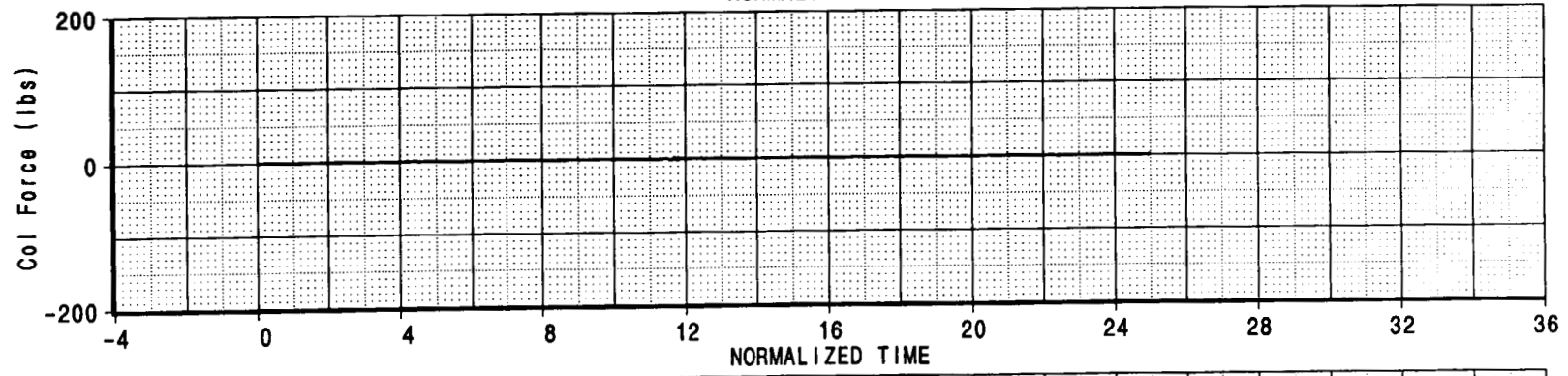
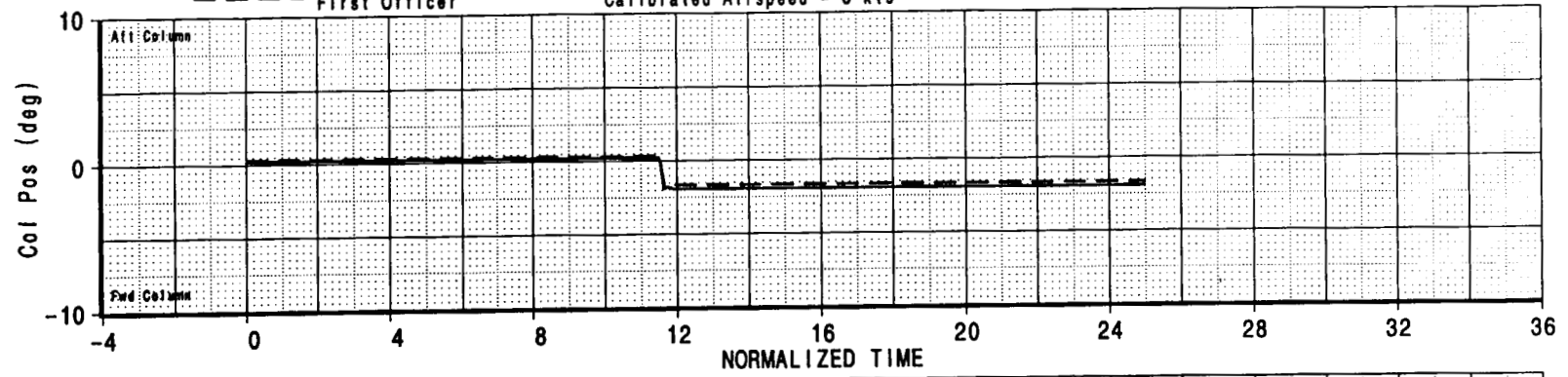
767-300F  
 VR259  
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08/28/01 11:01:25.0000-11:01:50.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

Differential Elevator Feel Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

PRELIMINARY



[A]: /project/flies/control\_sys/sys\_int/767/sustain/multiflies/egypt\_alr/vr259\_gt\_000\_07/VR259.000\_07.4709.eob  
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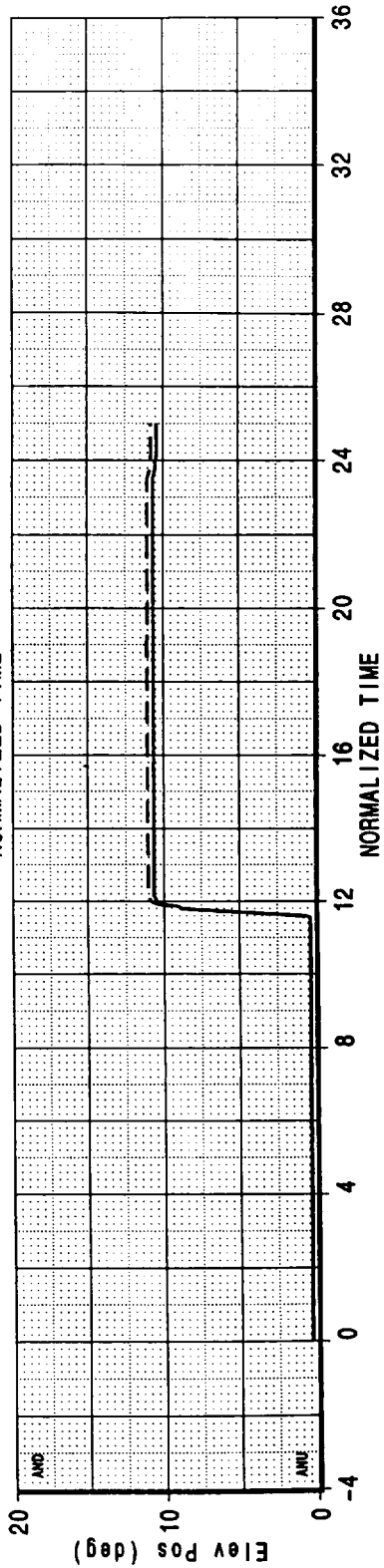
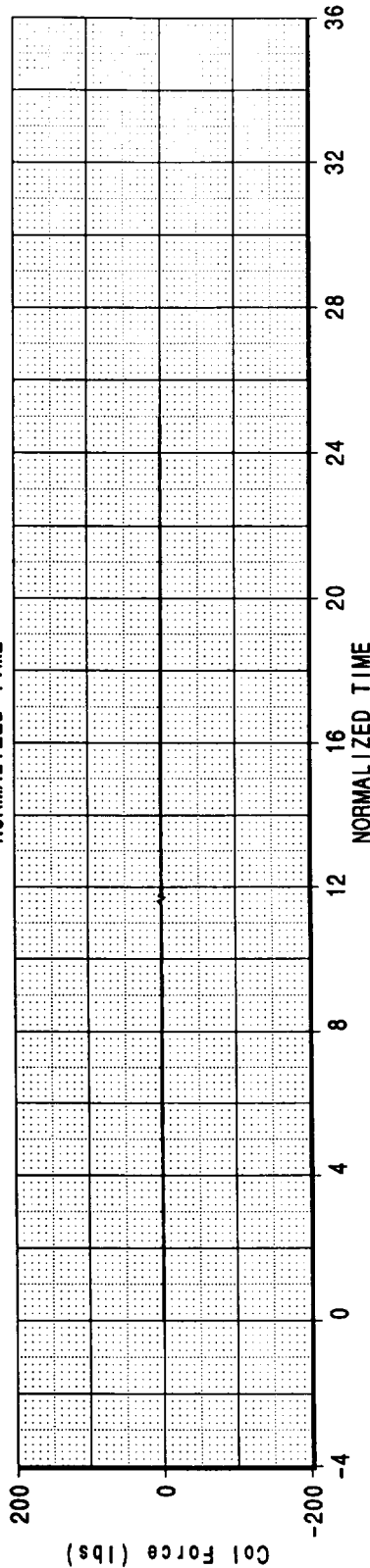
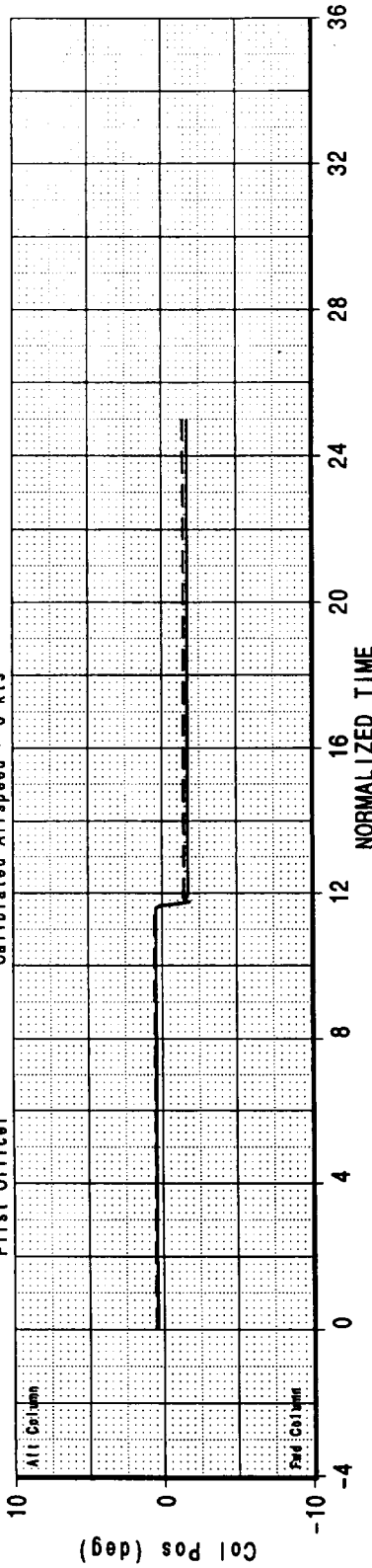
CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION FWD CABLE BREAK/FWD CABLE JAM TRANSIENT RESPONSE - COND .110 				
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08/28/01 13:37:40.0000-13:38:05.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY

Differential Elevator Feel Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



[A]: /project/111000/control\_sys/egp\_in/767/instain/111000/egp\_in/rr259\_g1\_000\_07/VR259\_000\_07\_4709.eab  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 TRANSIENT RESPONSE - COND .111

**BOEING**

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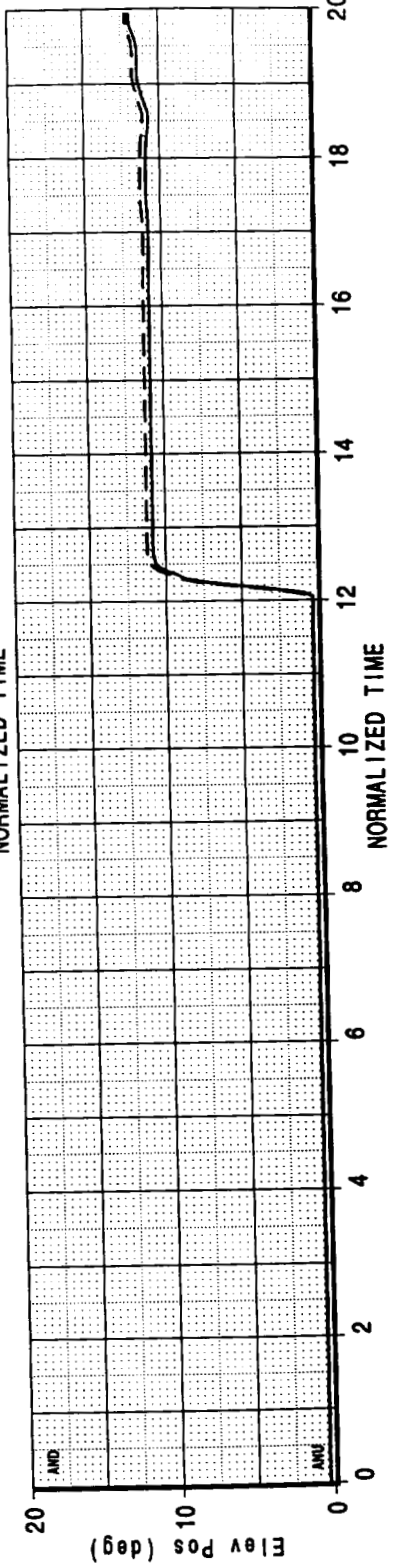
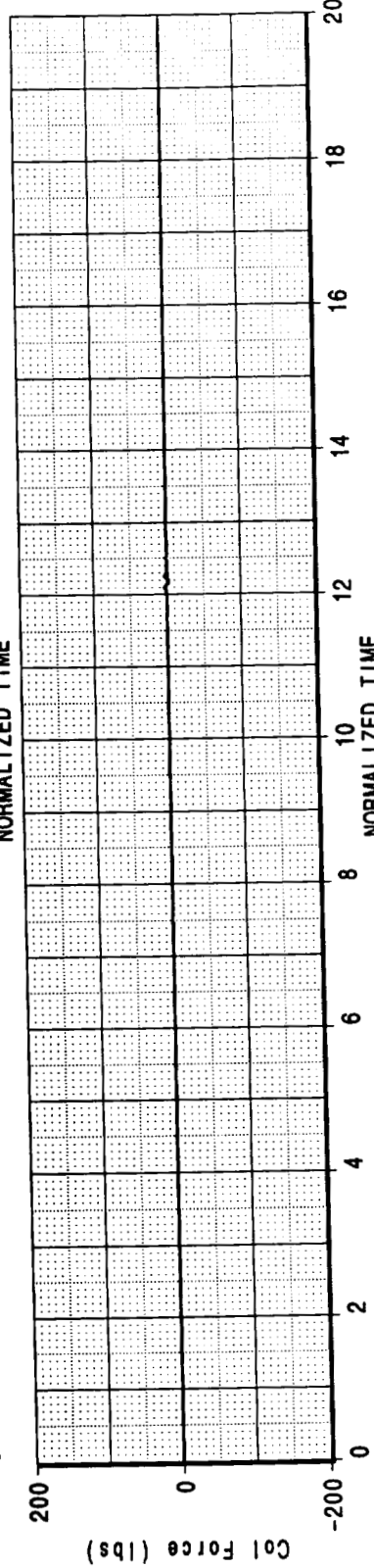
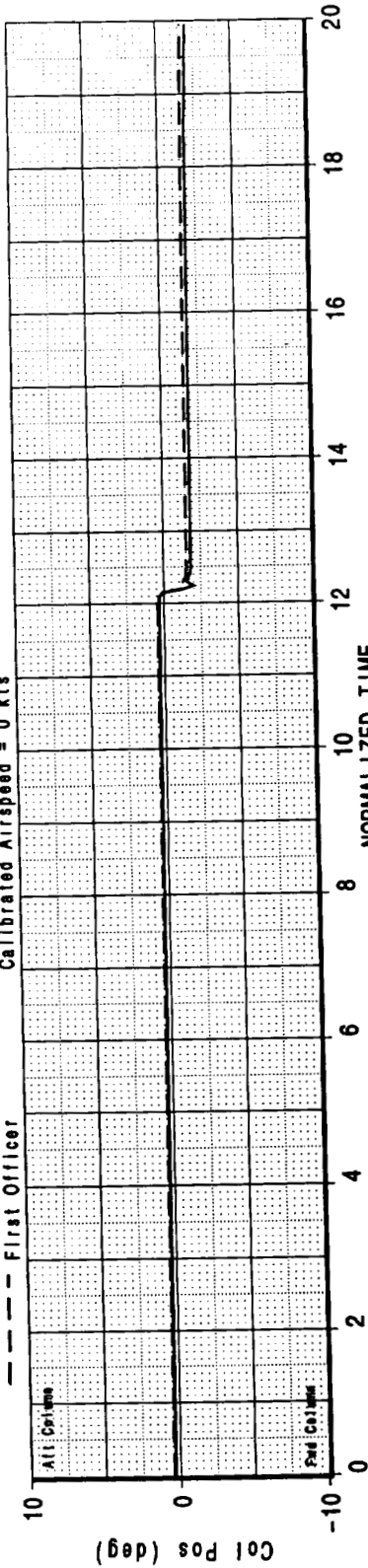
08/28/01 13:42:40.0000-13:43:05.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY

Differential Elevator Feel Pressure = 162 psi

Calibrated Airspeed = 0 kts

— Captain  
 - - - - - First Officer



[A]: /project/1110101/ctrl/control\_spr/spr\_101/767/sustain/multi/1010101/ctrl/ctrl\_1010101\_000\_07/VR259\_000\_07\_4709.eeb  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 TRANSIENT RESPONSE - COND .112



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 VR259

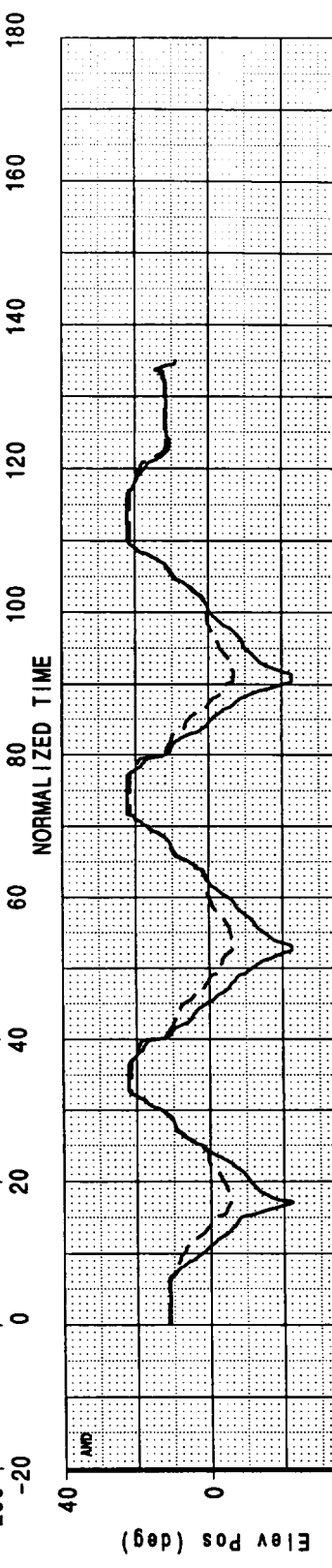
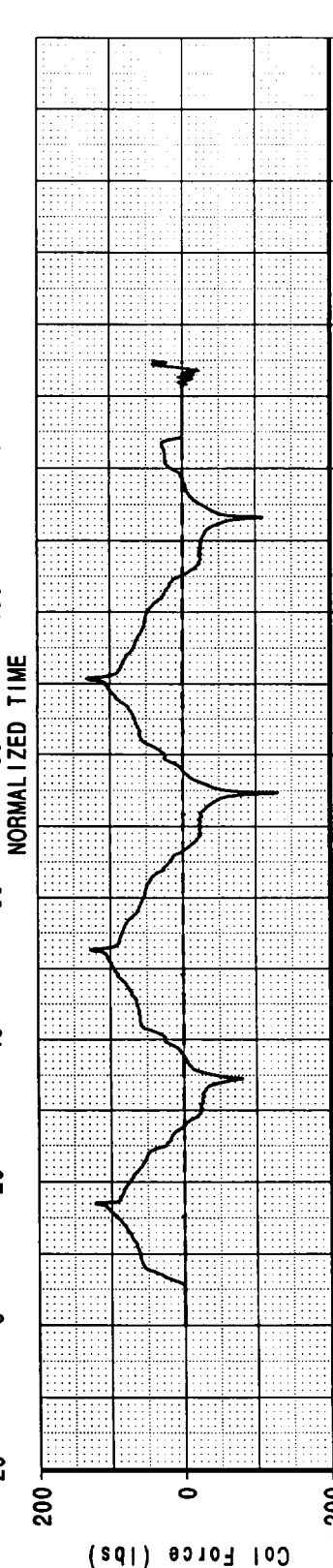
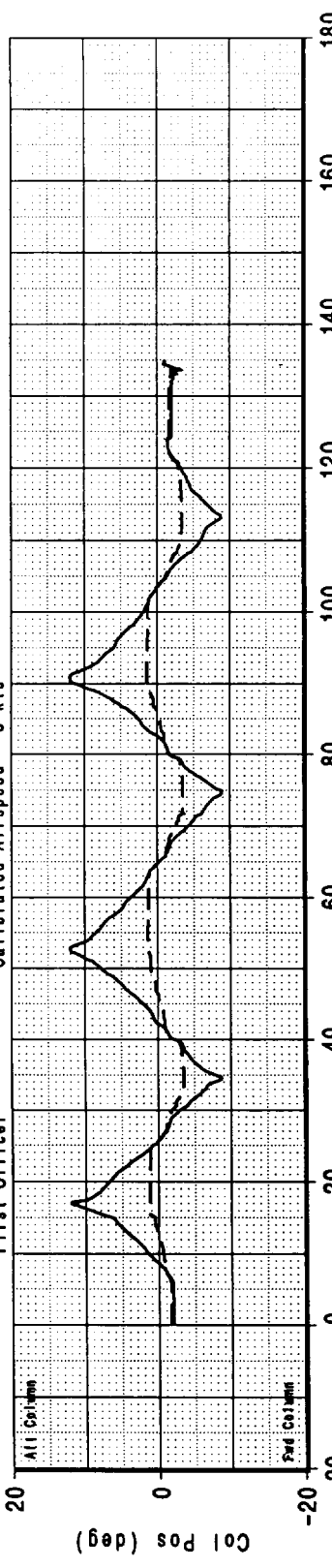
Test Date:  
 28-AUG-01

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08/28/01 11:02:45.0000-11:05:00.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY  
 Differential Elevator Feel Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



[A]: /project/111sys/control\_sys/sys\_int/767/submit/mw111sys/egypt\_elev/vr259\_01\_000\_07/VR259\_000\_07\_4769.ecb  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 CAPT SLOW COLUMN SWEEP - COND .113

**BOEING**

767-300F  
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 28-AUG-01  
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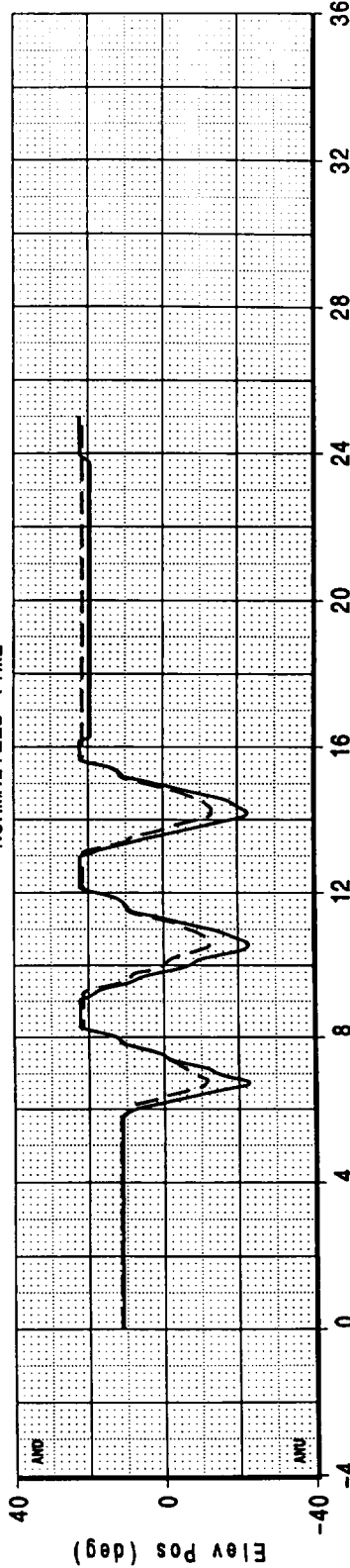
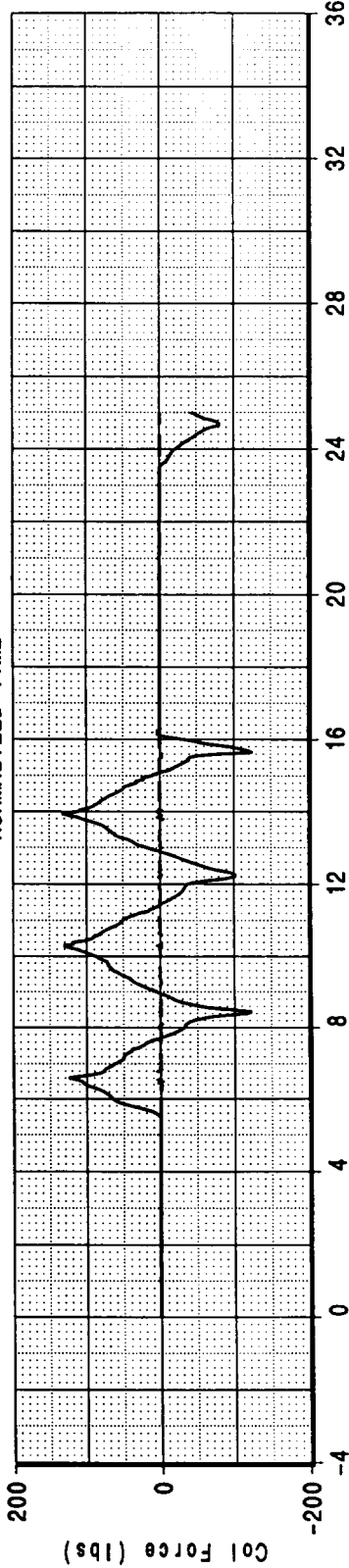
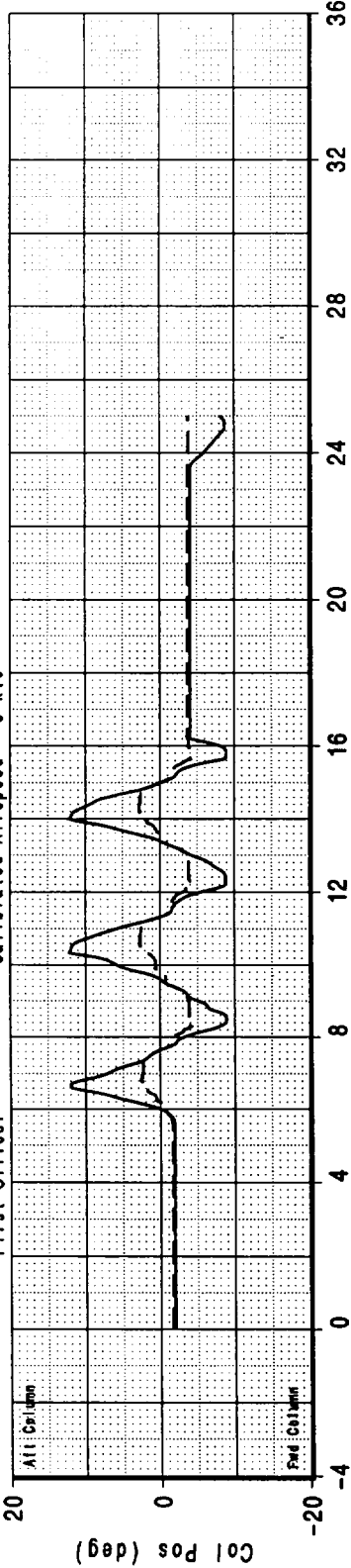


08/28/01 11:06:15.0000-11:06:40.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

Differential Elevator Feel Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer

PRELIMINARY



[A]: /project/110taps/control\_sps/sps\_int/767/analysis/mst110taps/egypt\_alr/vr259.gt.000.07/vr259.000.07.4709.oab  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 CAPT FAST COLUMN SWEEP - COND .115

**BOEING**

767-300F  
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 28-AUG-01

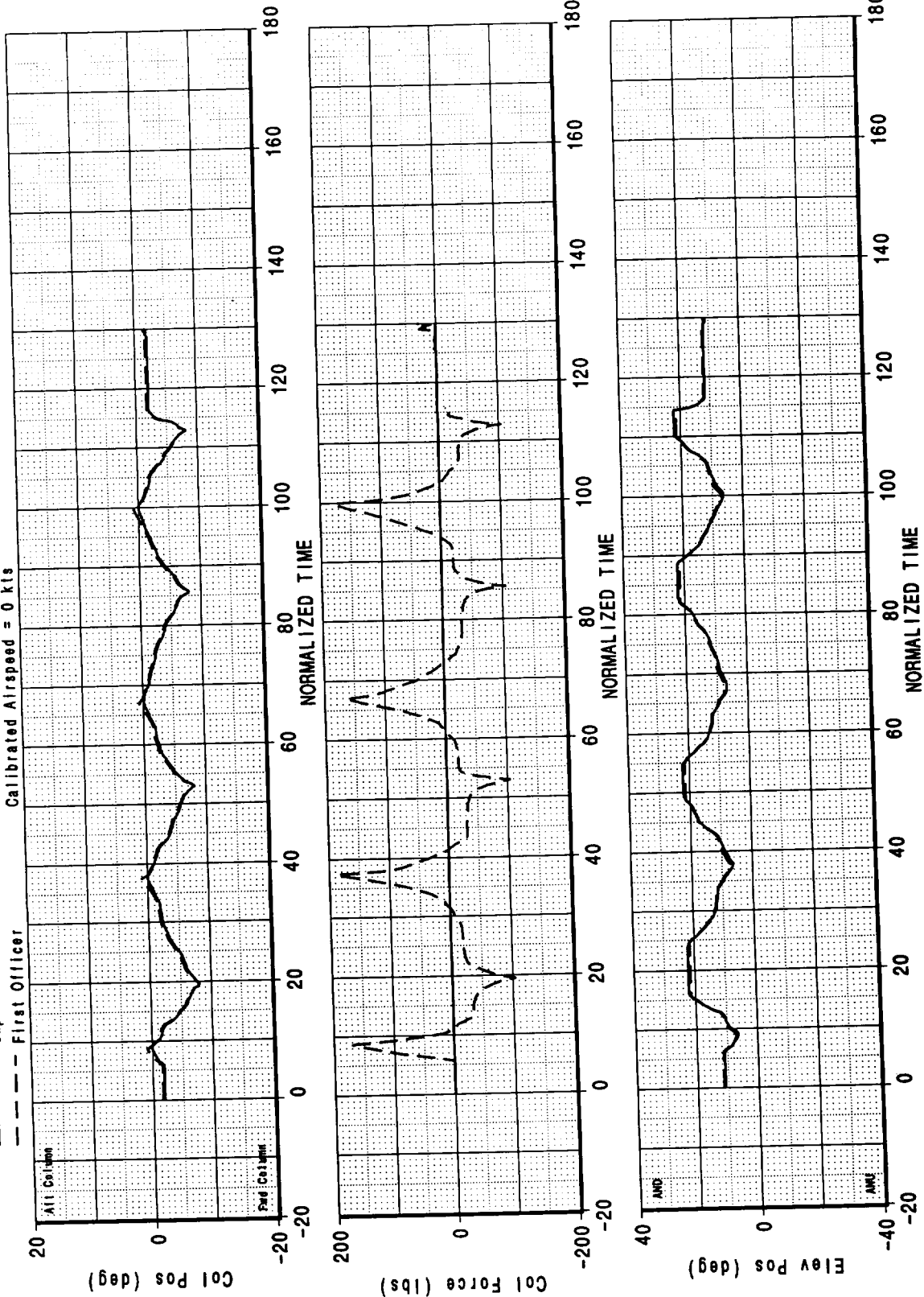
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08/28/01 11:08:00.0000-11:10:10.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY

Differential Elevator Feel Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



[A]: /project/111045/control\_sys/sys\_int/767/sectors/multiops/egypt\_01/vr259\_000\_07/VR259\_000\_07\_4709.aab  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 F/O SLOW COLUMN SWEEP - COND .116

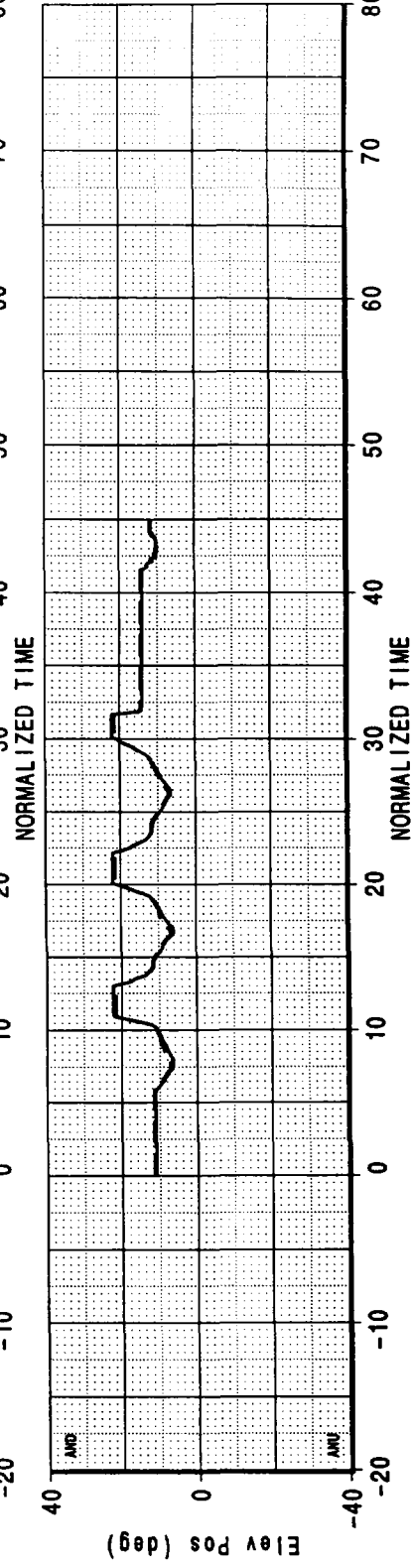
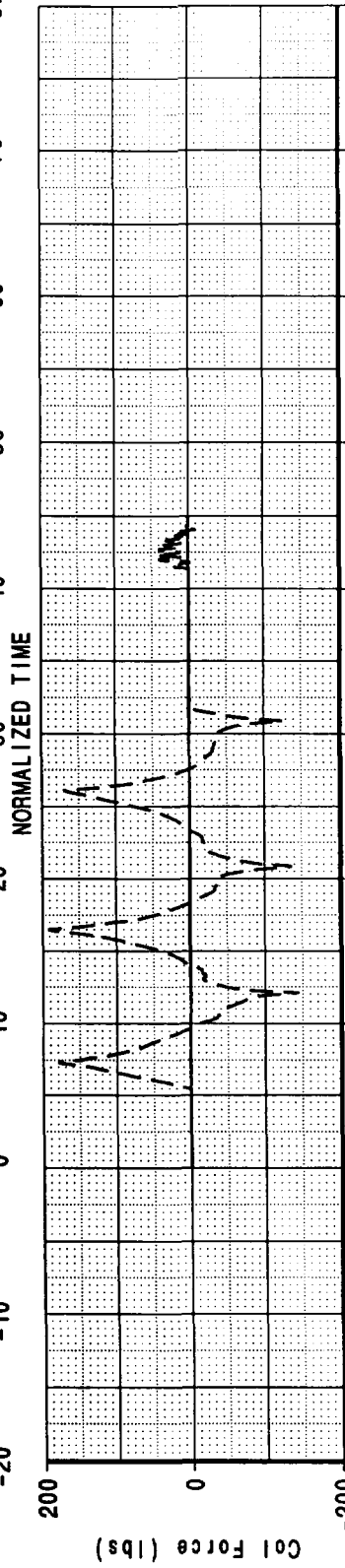
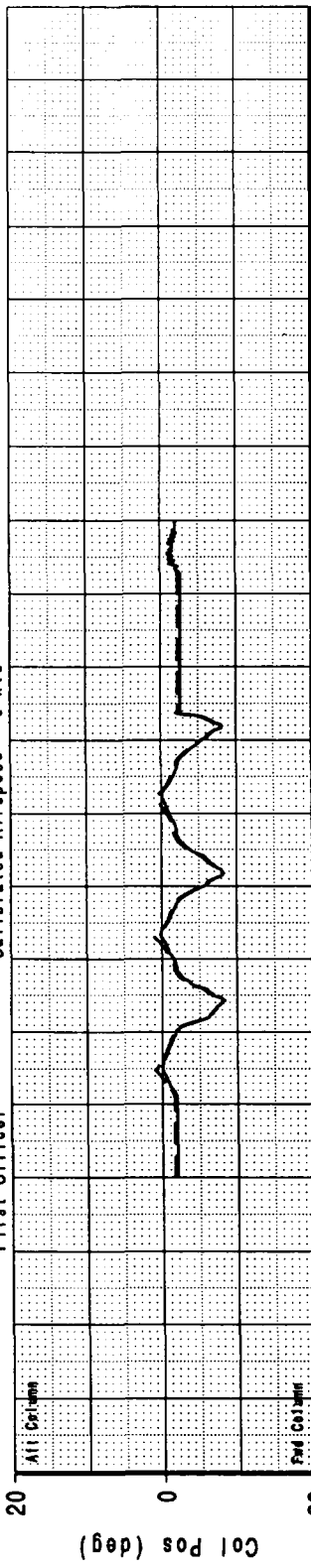
**BOEING**

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08/28/01 11:11:05.000-11:11:50.000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY  
 Differential Elevator Feel Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



[A]: /project/llays/control\_sys/sys\_int/767/substate/multilogs/egyp\_alr/vr259\_000-07/vr259\_000-07\_4700\_00b  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 F/O MED COLUMN SWEEP - COND .117



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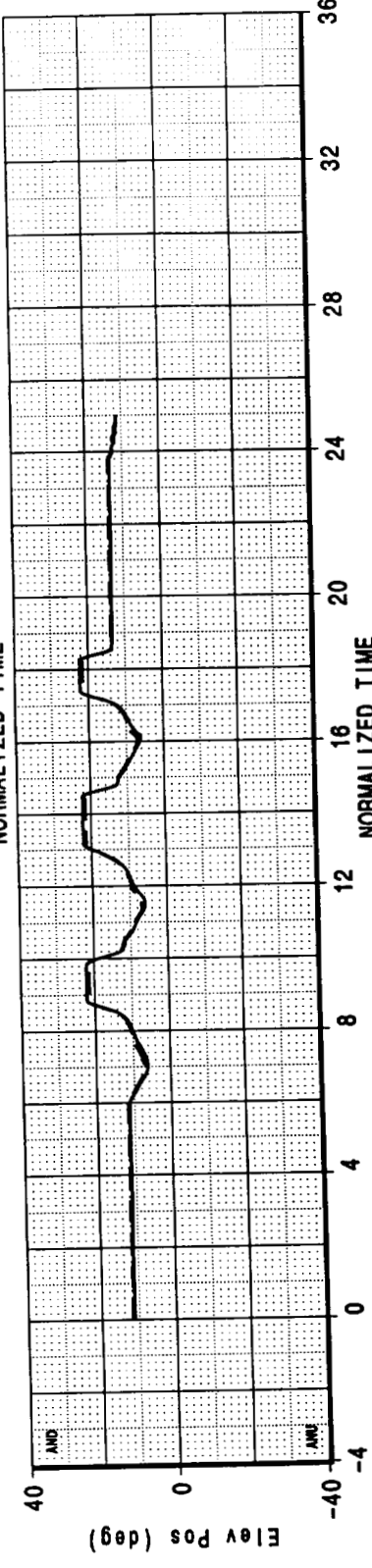
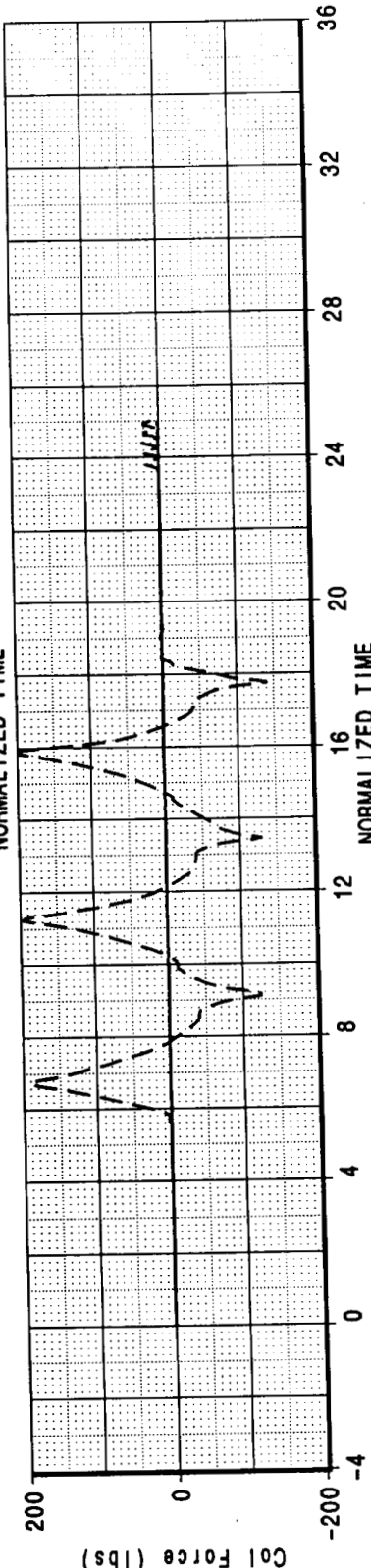
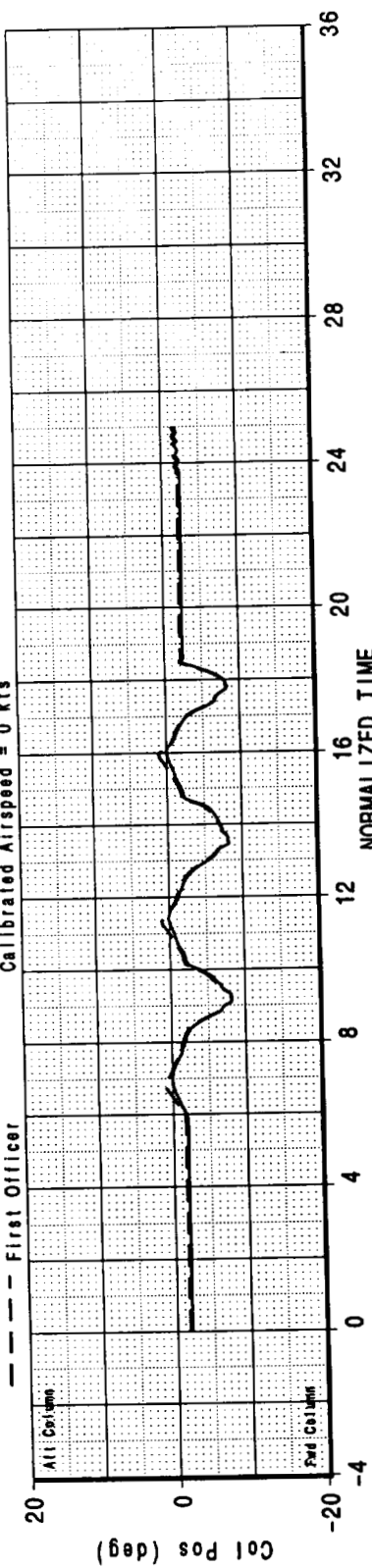
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08/28/01 11:12:10.000-11:12:35.000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY

Differential Elevator Feel Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



(A): /proj/111sys/control\_sys/sys\_int/787/restore/mml1sys/egyp1\_a1r/vr259\_g1\_000\_07/vr259\_000\_07\_4709.oab  
 81.38.1384.118/000-07/VR259

CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 F/O FAST COLUMN SWEEP - COND .118



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 PAGE

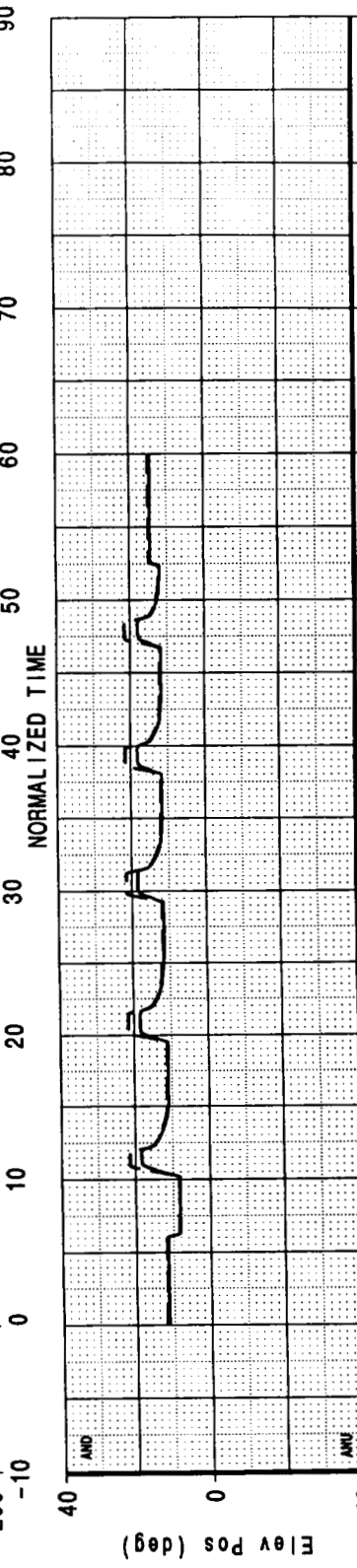
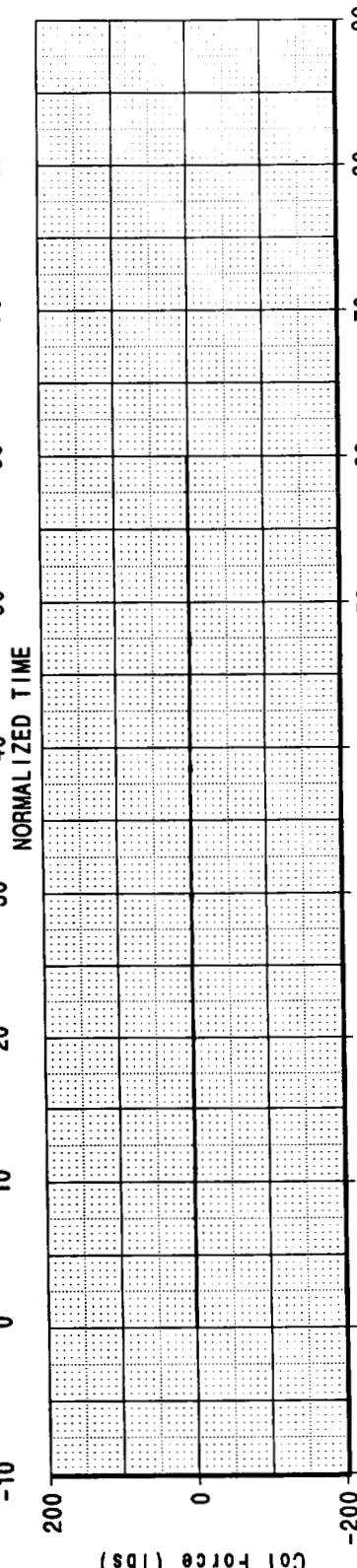
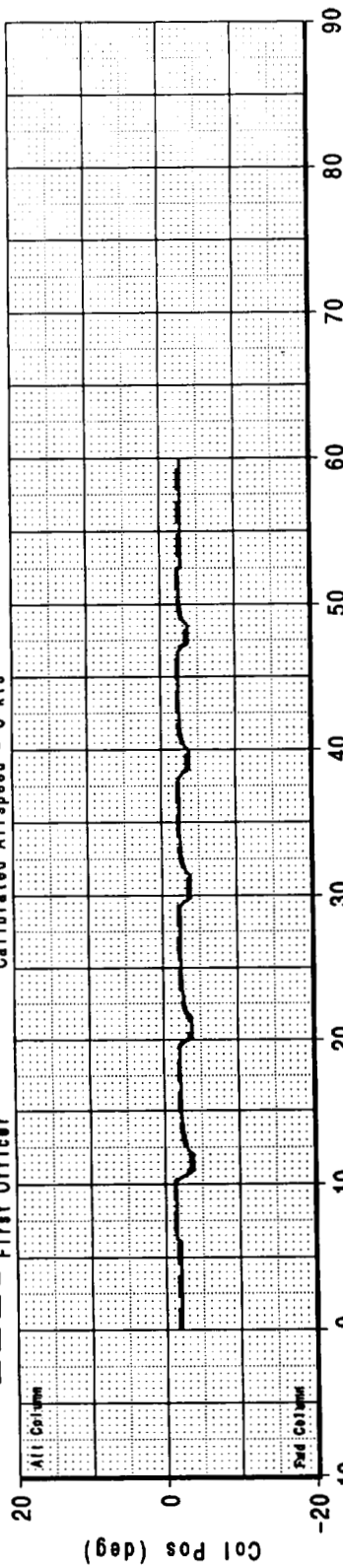
08/28/01 11:13:55.000-11:14:55.000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY

Differential Elevator Feel Pressure = 162 psi

Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



(A): /project/lttays/control\_ays/ays\_int/767/autola/mmltays/egppl\_at/vr259\_01\_000\_07/VR259\_000\_07\_4709.eab

81.38.1384.118/000-07/VR259

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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 R AUTOPILOT SWEEPS - COND .119

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 VR259  
 Test Date:  
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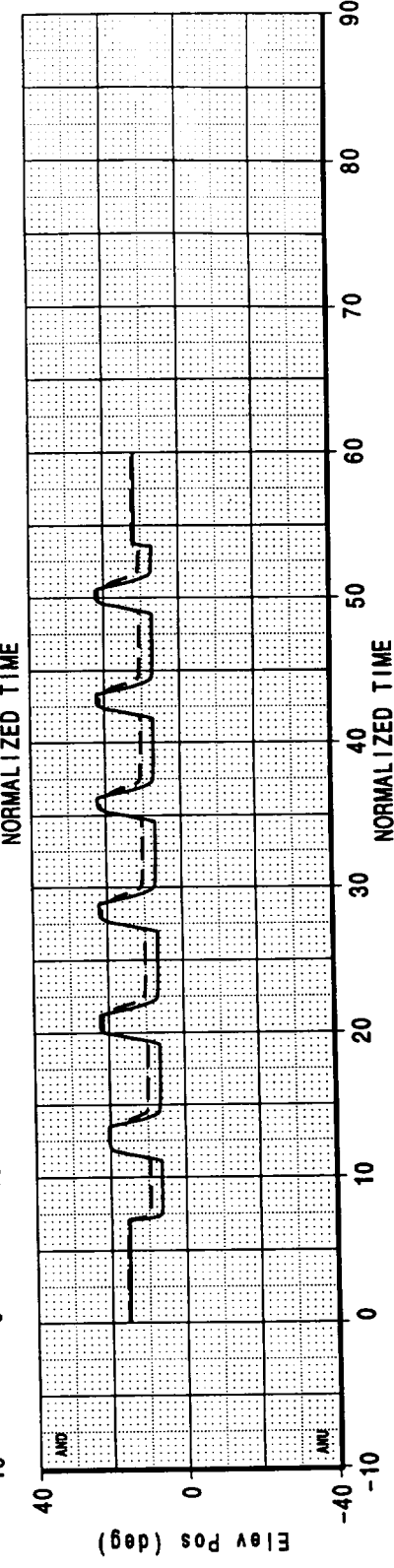
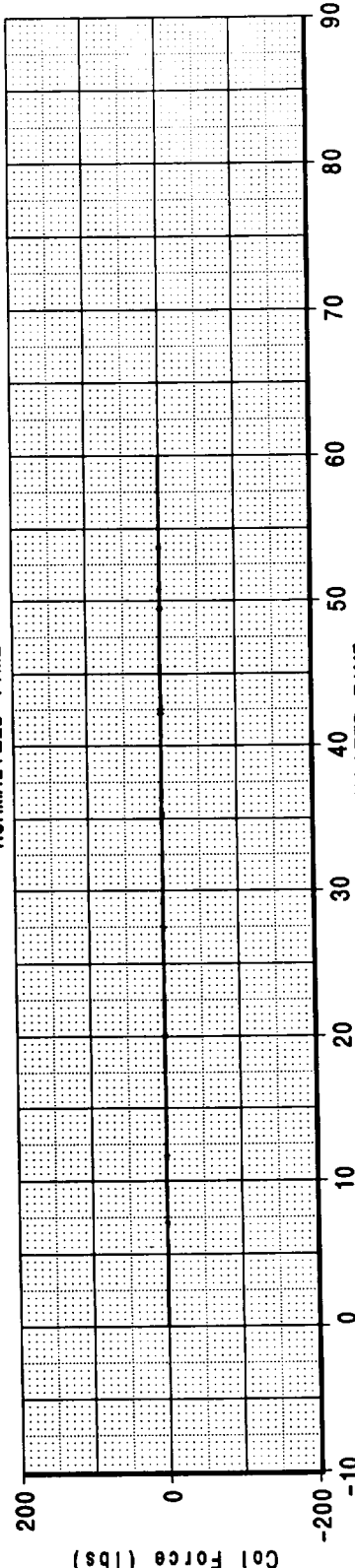
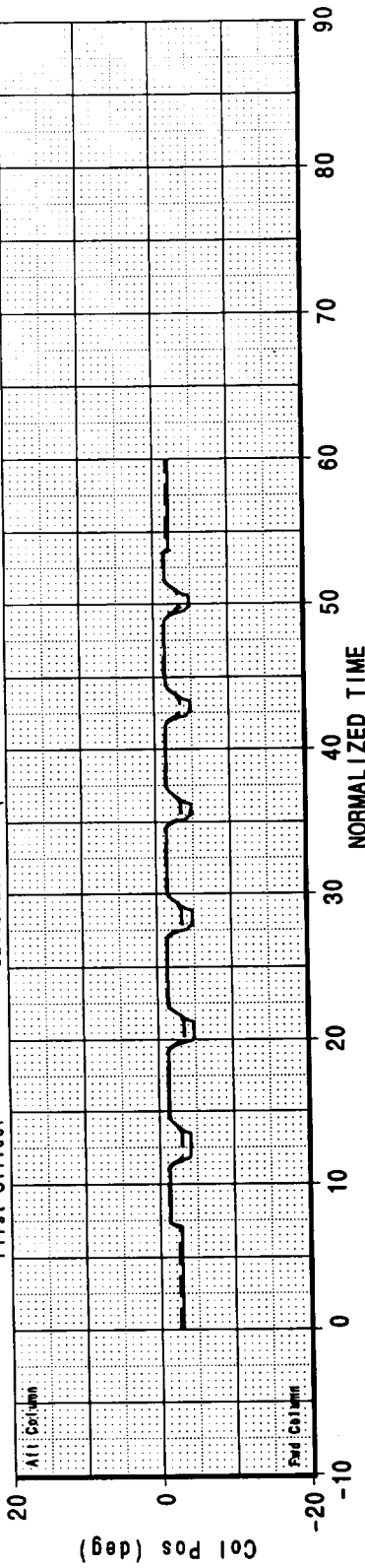


08/28/01 11:16:25.0000-11:17:25.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY

Differential Elevator Feel Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



[A]: /project/11toys/control\_sys/sys\_int/767/abstate/multilays/egypt\_nir/vr259\_g1\_000\_07/vr259\_000\_07\_4708.stb  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 C AUTOPILOT SWEEPS - COND .120

767-300F  
 VR259  
 Test Date:  
 28-AUG-01

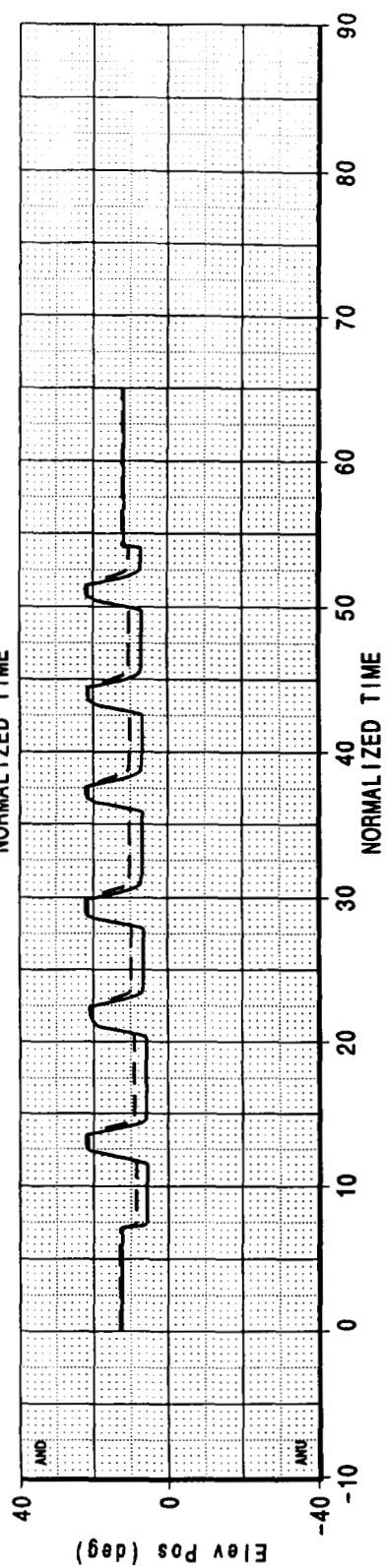
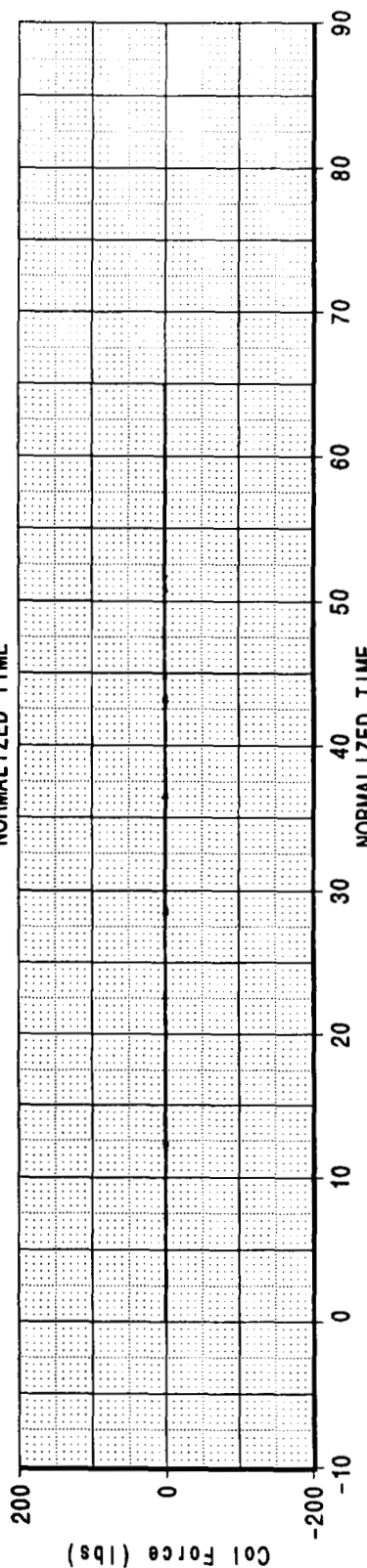
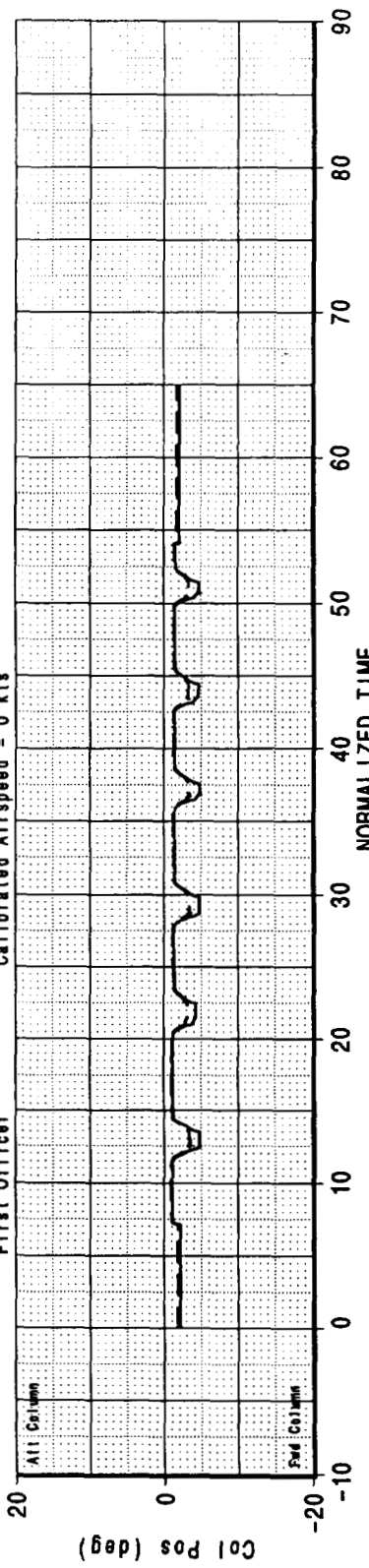


PAGE

08/28/01 11:18:40.0000-11:19:45.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY  
 Differential Elevator Feet Pressure = 162 psi  
 Calibrated Airspeed = 0 kts

— Captain  
 - - - First Officer



[A]: /project/11keys/control\_sys/eye\_int/767/austain/mellkeys/egpp/\_air/vr259\_st\_000\_07/vr259\_000\_07\_4709\_eeb  
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 L AUTOPILOT SWEEPS - COND .121

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 VR259

Test Date:  
 28-AUG-01



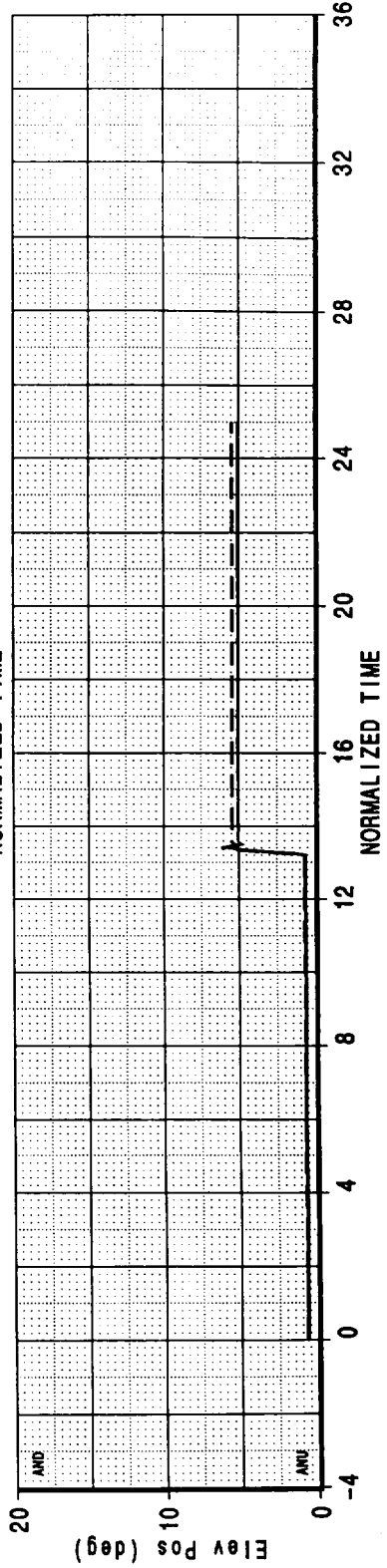
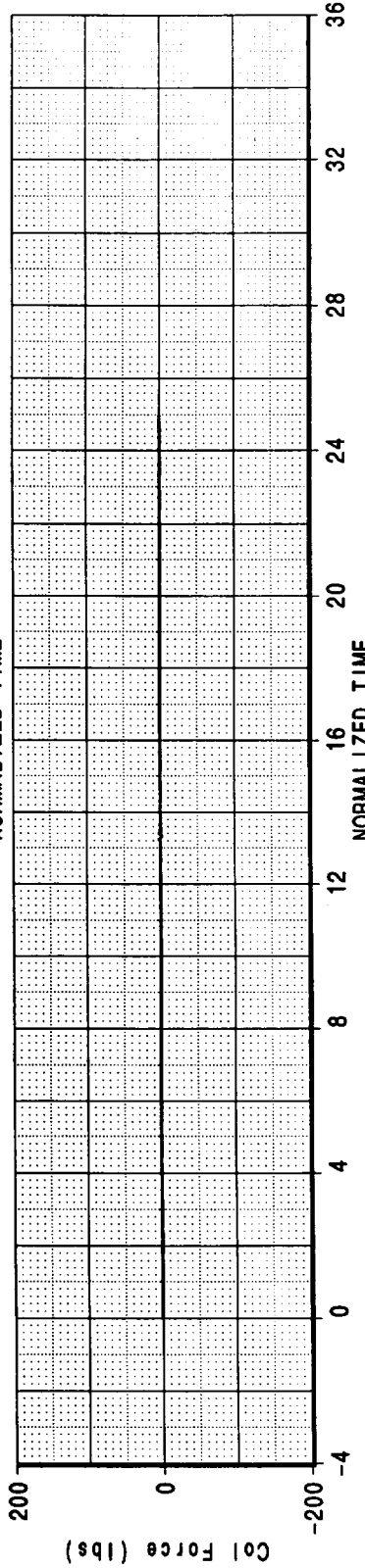
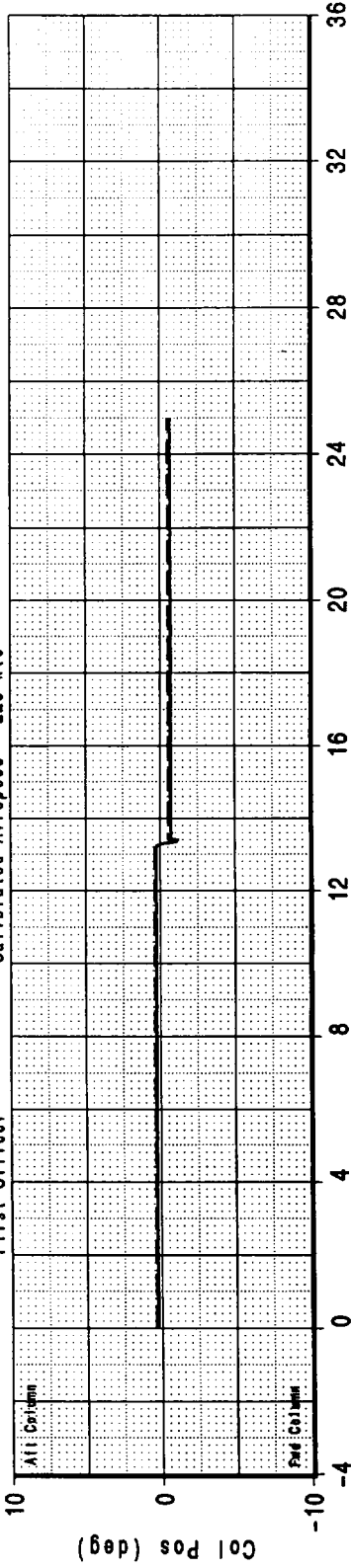
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08/28/01 11:36:15.0000-11:36:40.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY  
 Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer



[A]: /project/111sys/control\_sys/eps\_int/767/epssta/m/111sys/egyp/air/vr259\_g1\_000\_07/vr259\_000\_07\_4710.ans  
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 TRANSIENT RESPONSE - COND .122

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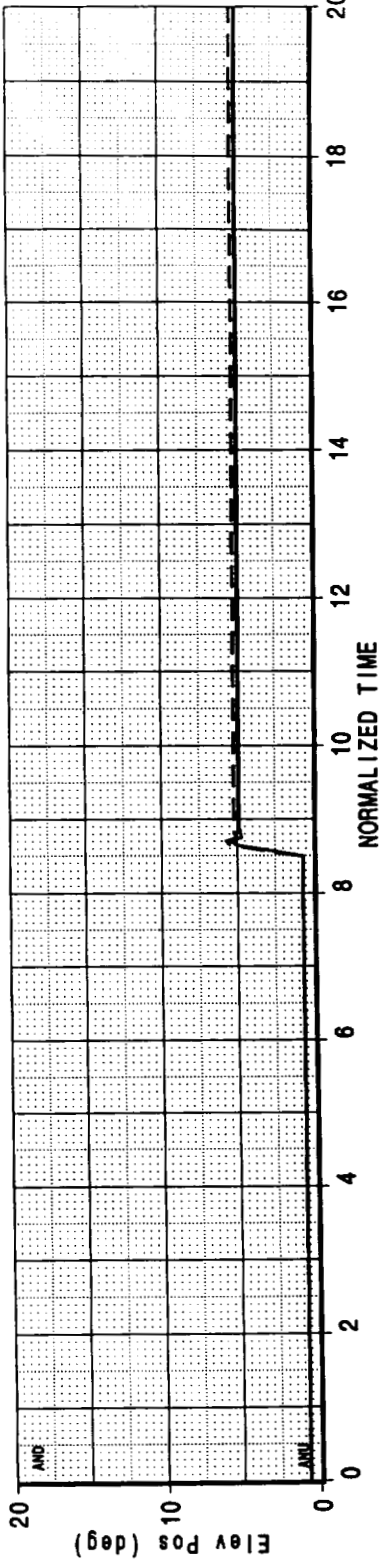
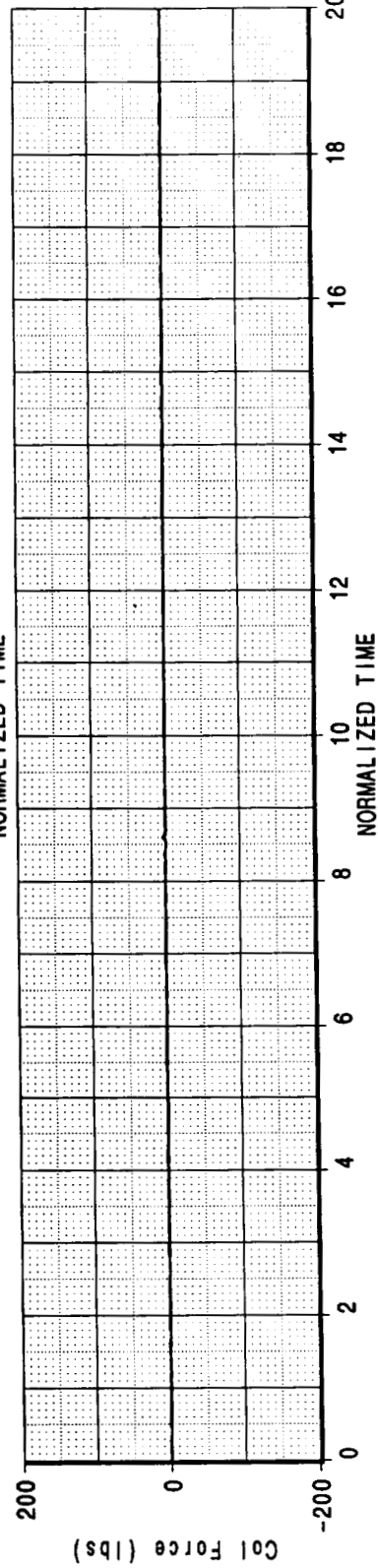
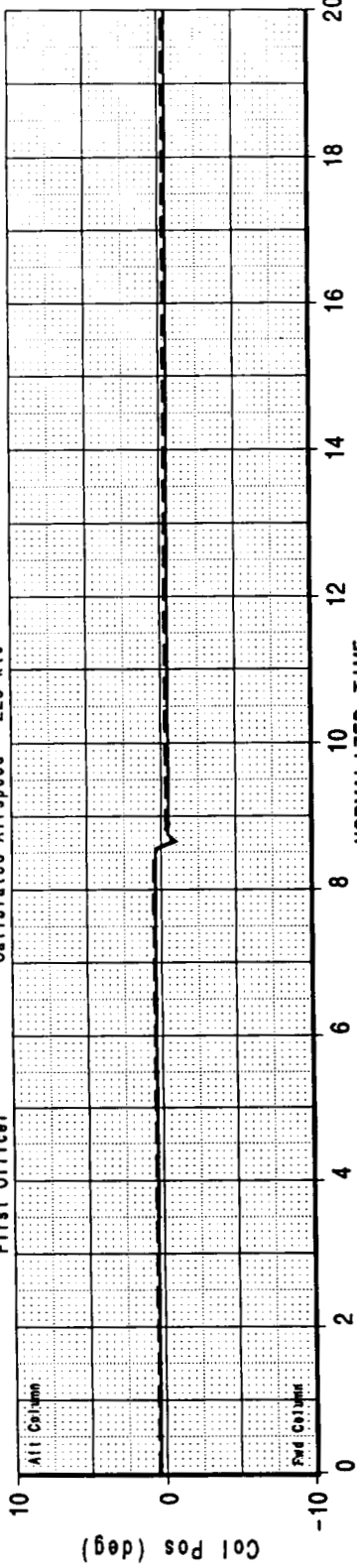
767-300F  
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08/28/01 15:32:40.0000-15:33:00.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY  
 Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer



[A]: /project/flight/control\_eyes/eye\_init/767/instaln/multilogs/egyp\_air/vr259\_01\_000\_07/vr259\_000\_07\_4716.asb  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 TRANSIENT RESPONSE - COND .122.1

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 28-AUG-01



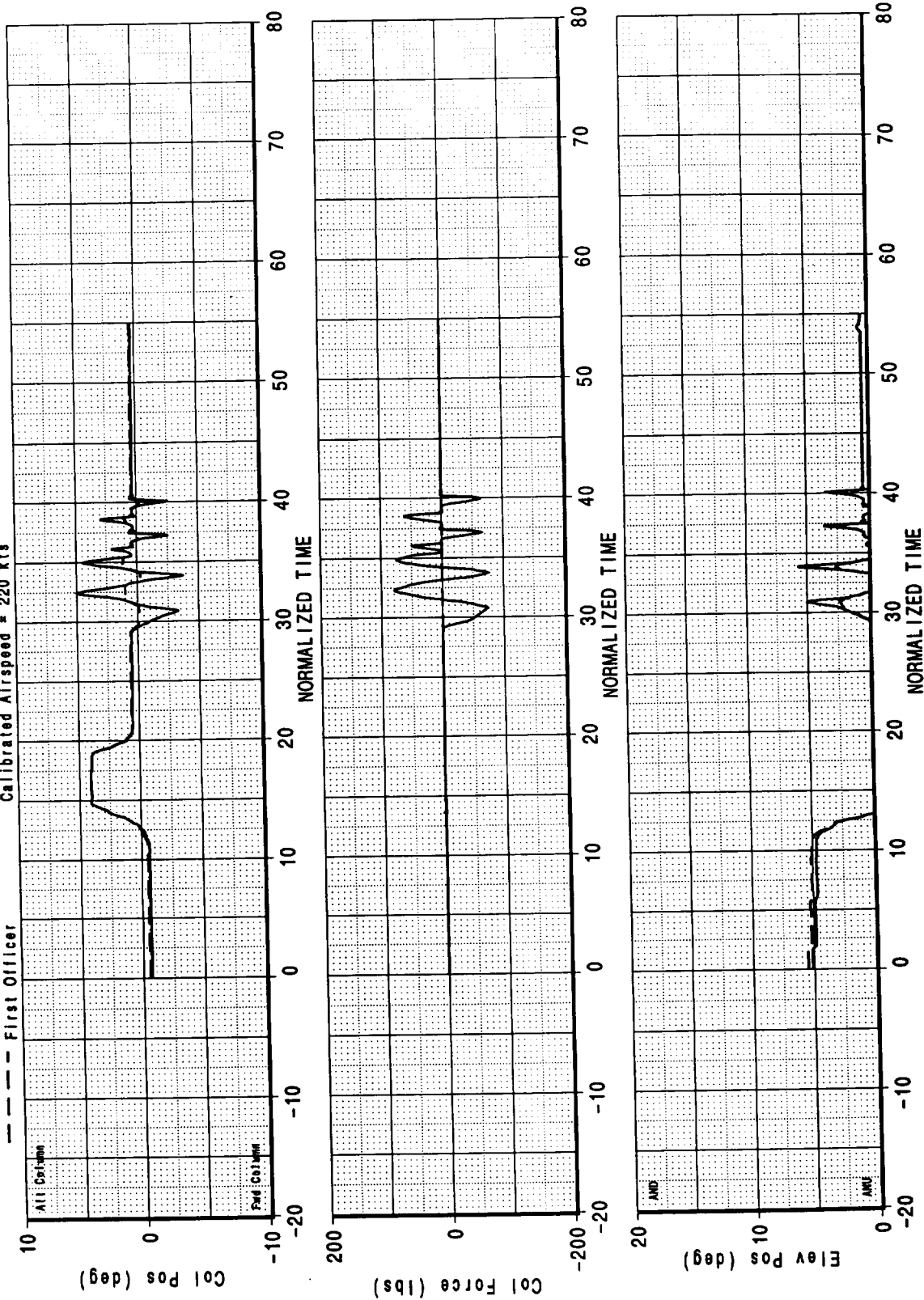
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08/28/01 13:18:55.000-13:19:50.000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY

Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer



[AI: /project/it/tygs/control\_sys/tygs\_int/767/ustata/multitygs/egypt\_alr/vr259\_01\_000\_07/VR259\_000\_07\_4710.aab  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 TRANSIENT RESPONSE - COND .123

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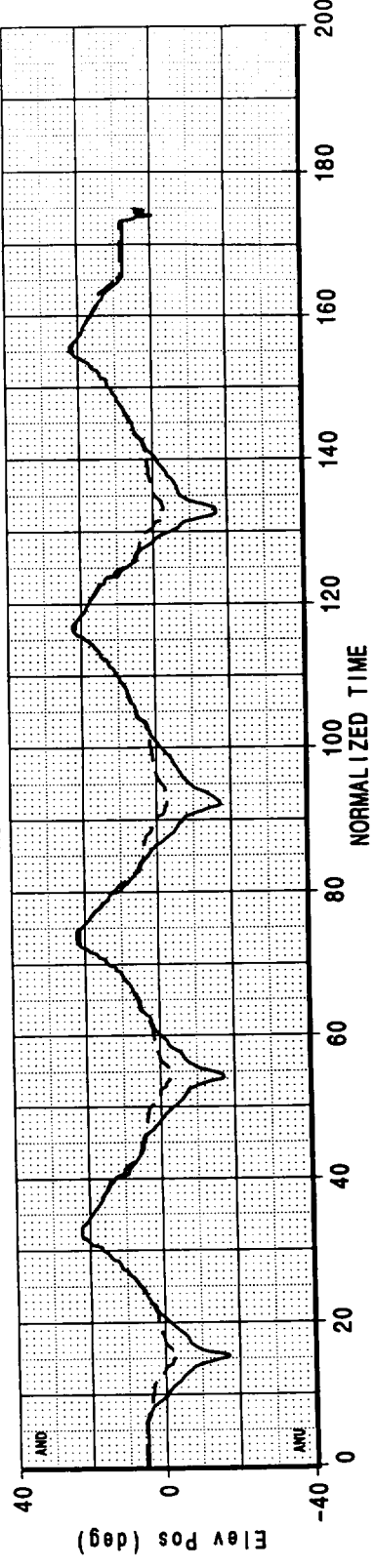
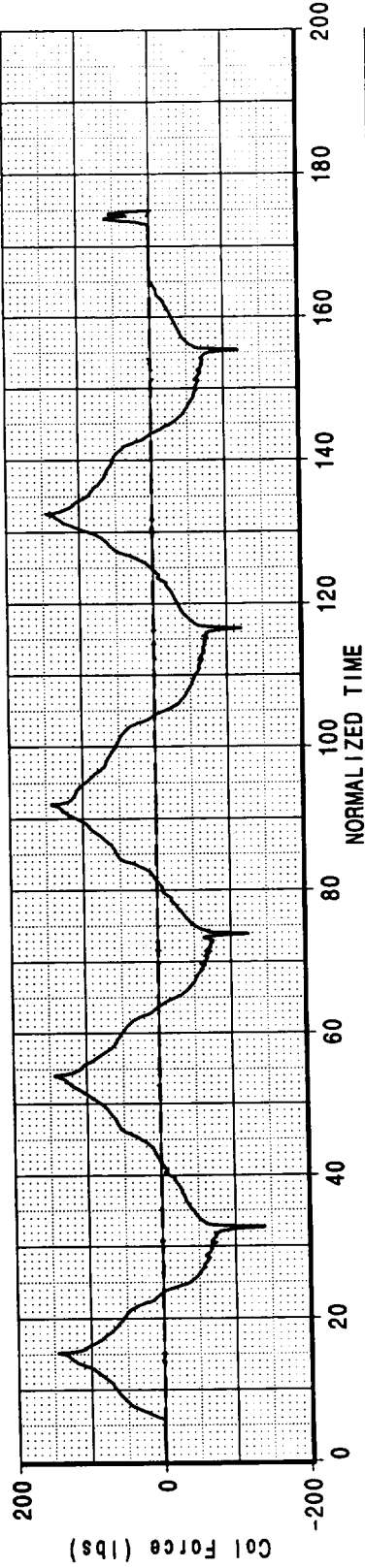
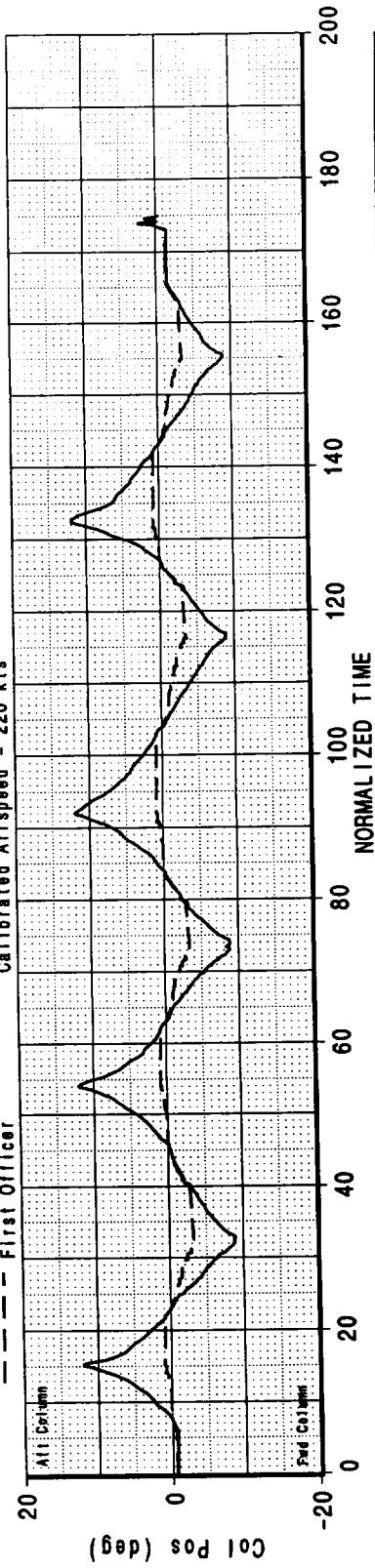
PAGE



08/28/01 11:38:45.0000-11:41:40.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY  
 Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer



[A]: /project/11days/control\_eyes/eye\_ini/767/sustain/multi/eye/egyp/\_ali/vr259\_gi\_000\_07/VR259\_000\_07\_4710.eeb  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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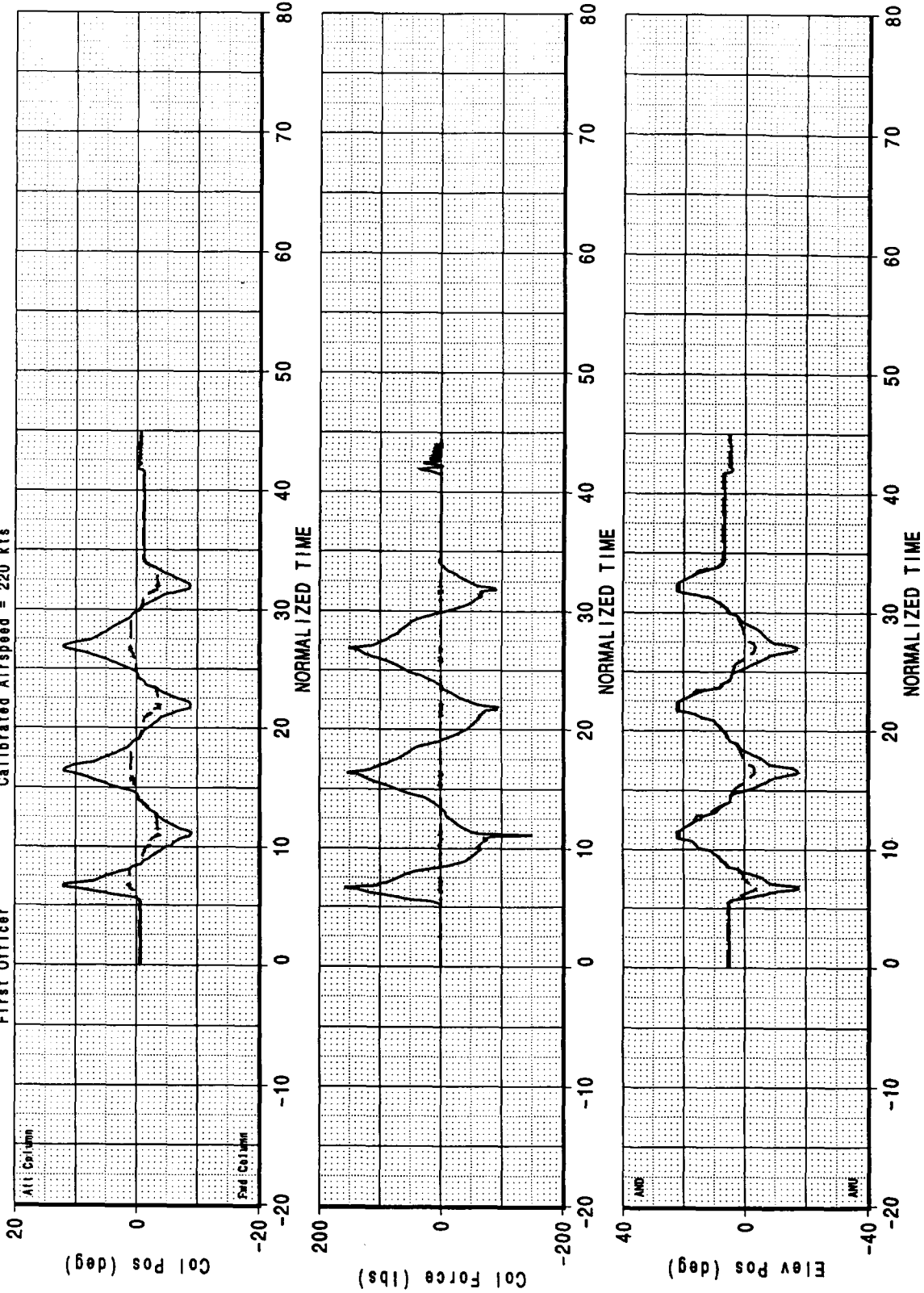
EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 CAPT SLOW COLUMN SWEEPS - COND .125

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 VR259  
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08/28/01 11:42:05.0000-11:42:50.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY  
 Captain  
 First Officer  
 Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts



[A]: /project/11059/control\_eyes/eye/eye\_int/767/analst/multi/multi/egypL\_eir/vr259\_01\_000\_07/VR259\_000\_07\_4710.ash  
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 CAPT MED COLUMN SWEEPS - COND .126

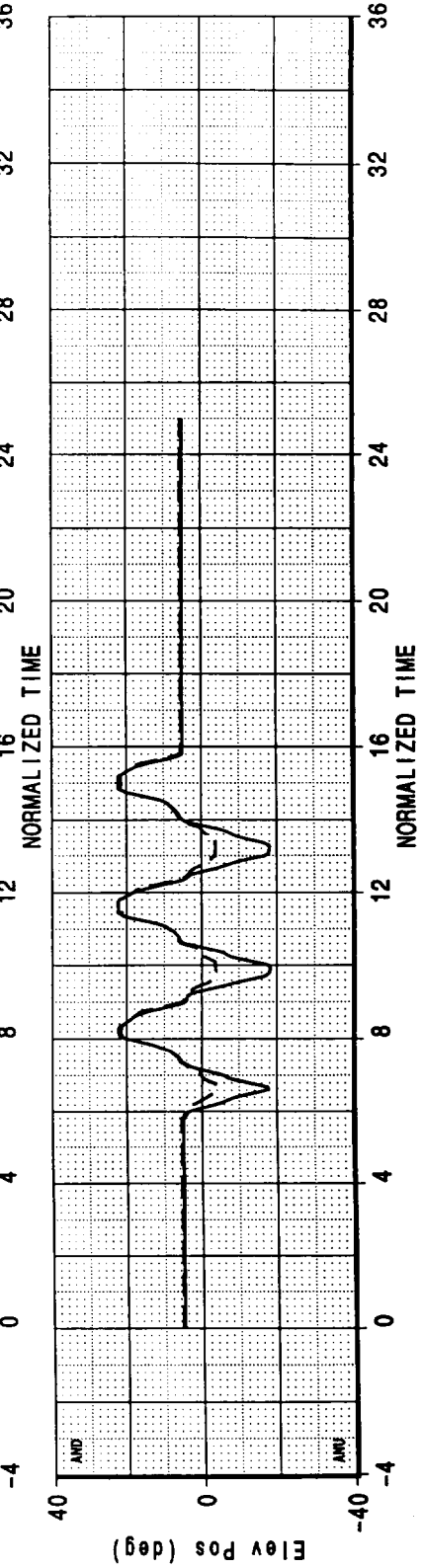
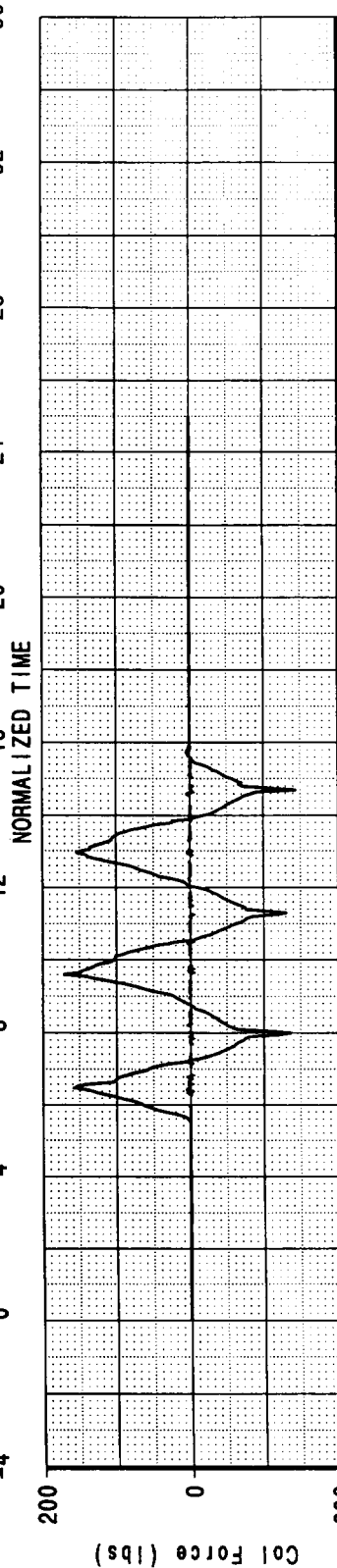
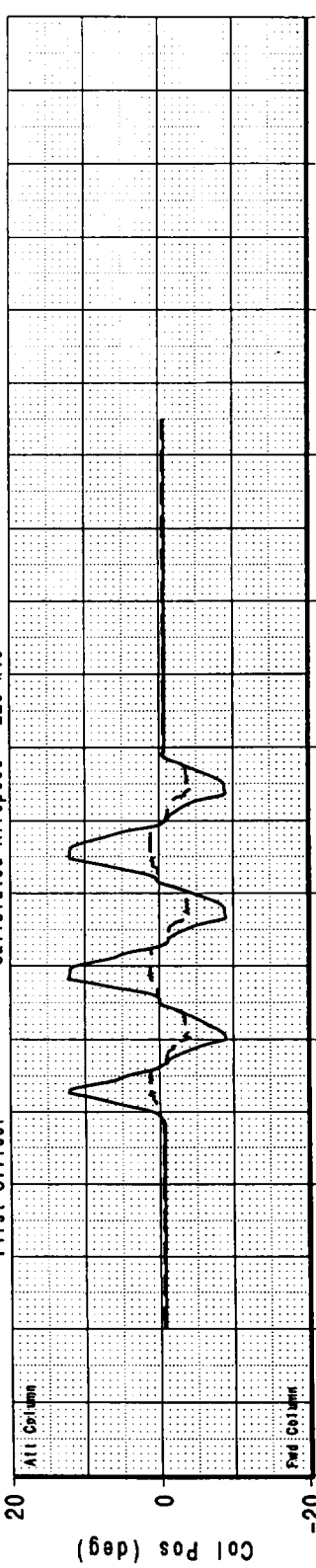


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08/28/01 11:43:05.000-11:43:30.000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY  
 Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer



(A): /project/flight/control\_sys/eps\_int/767/analsta/multi/epf/egpp1\_at/vr259\_01\_000\_07/VR259\_000\_07\_4710.eab  
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 CAPT FAST COLUMN SWEEPS - COND .127

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 VR259  
 Test Date:  
 28-AUG-01



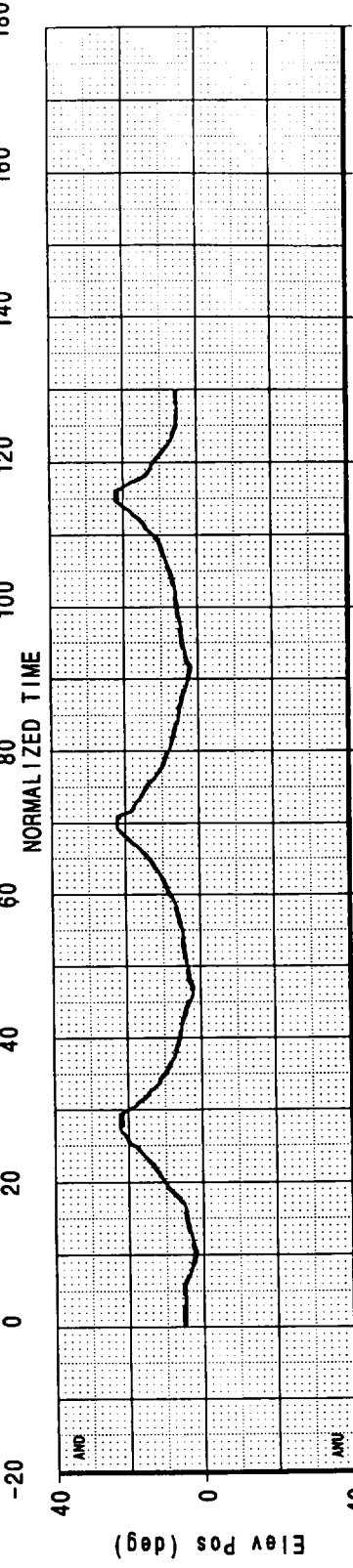
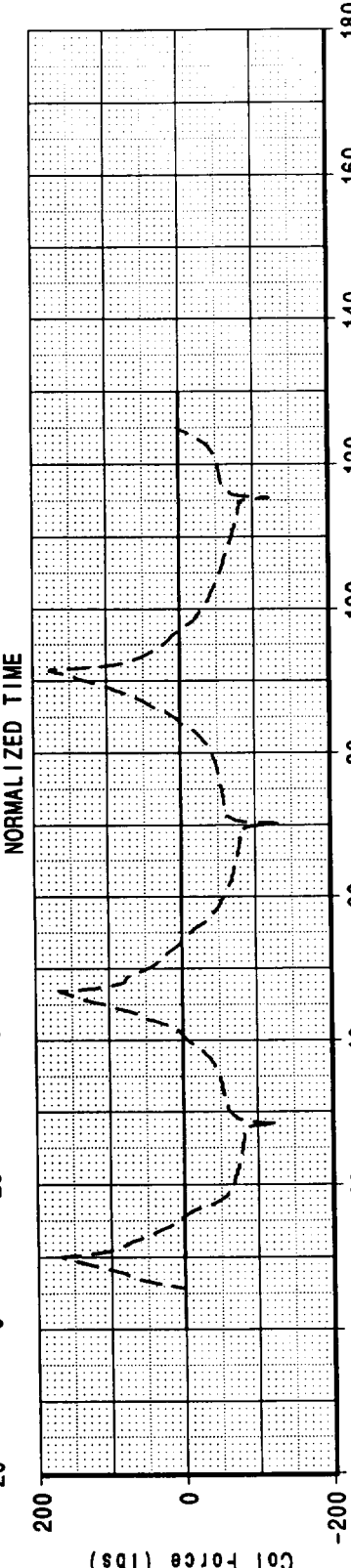
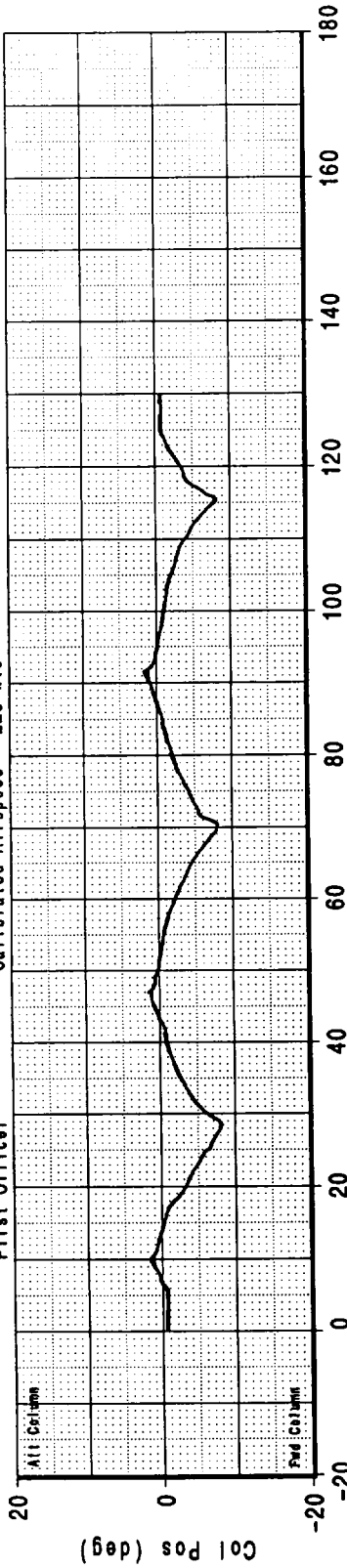
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08/28/01 11:45:15.0000-11:47:25.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY

Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer



[A]: /project/11/ops/control\_eyr/ops\_int/767/sectain/multi/ops/egppt\_alr/vr259\_01\_000\_07/VR259\_000\_07\_4710.oas  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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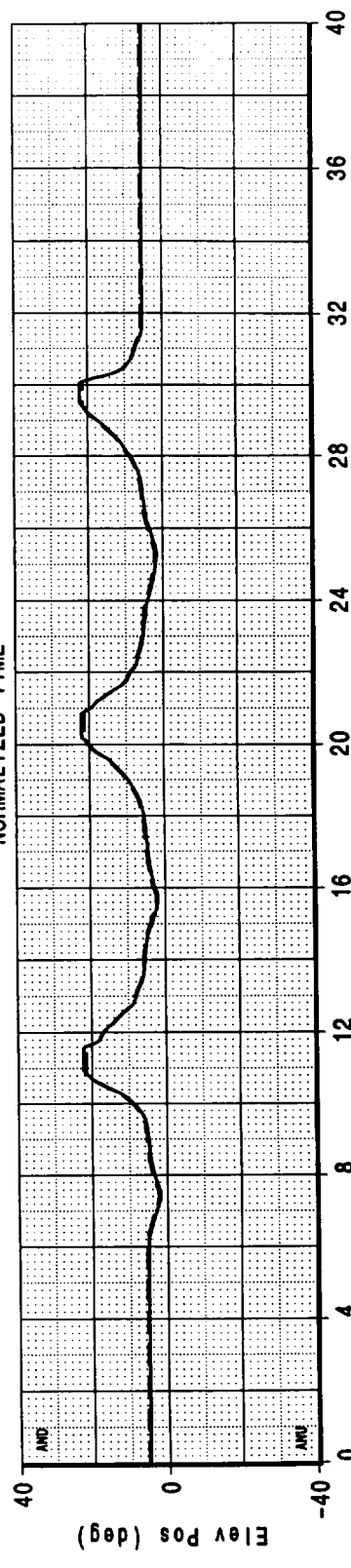
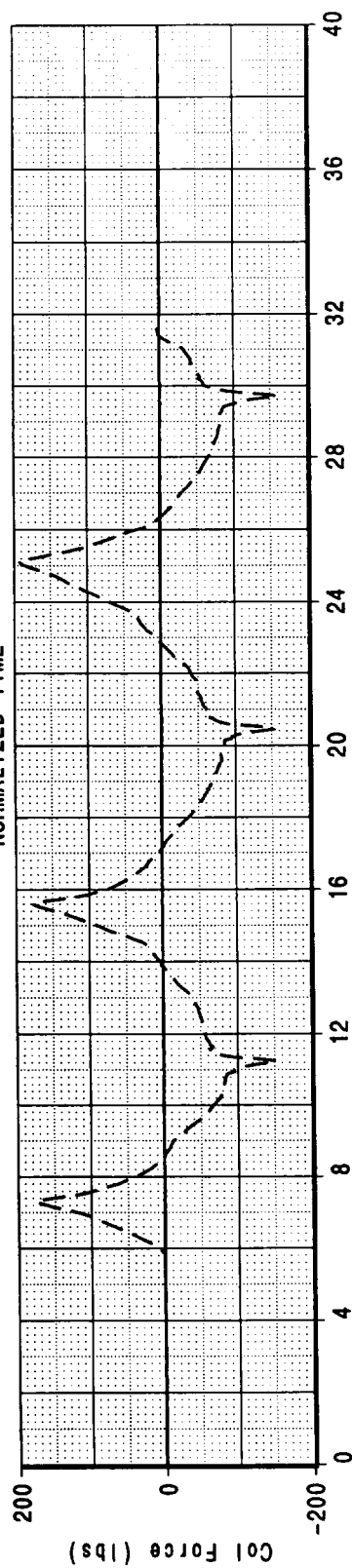
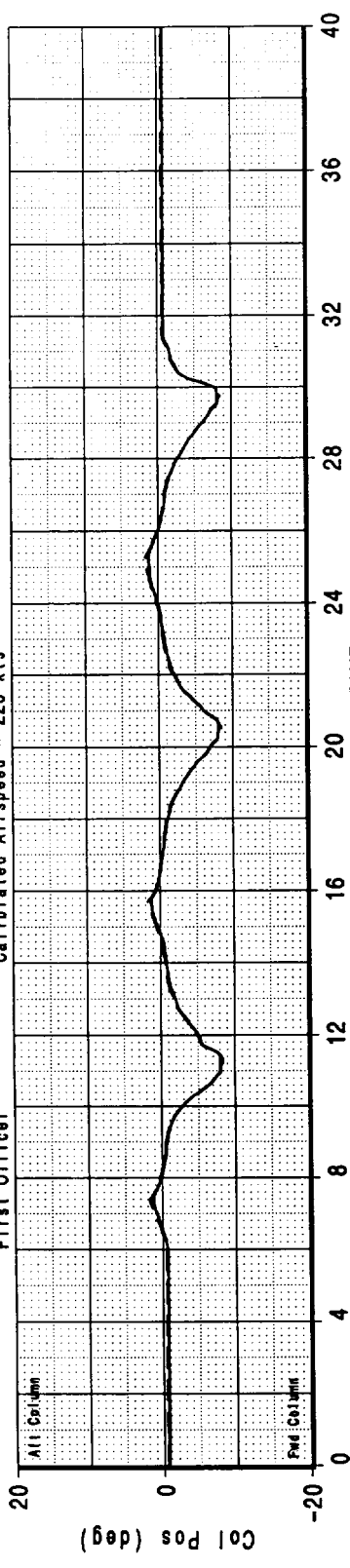
EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 F/O SLOW COLUMN SWEEPS - COND .128



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08/28/01 11:48:00.0000-11:48:40.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY  
 Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts



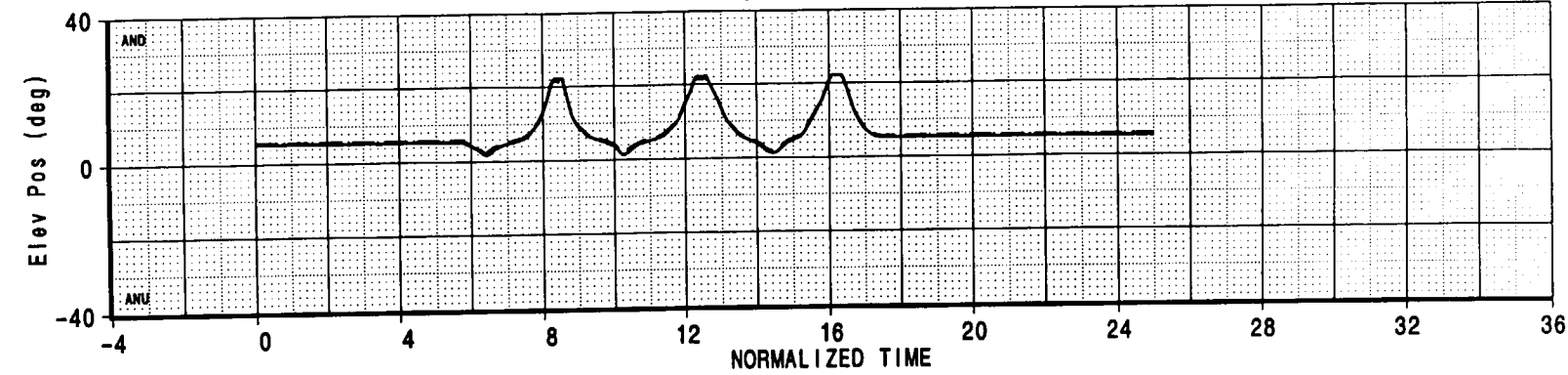
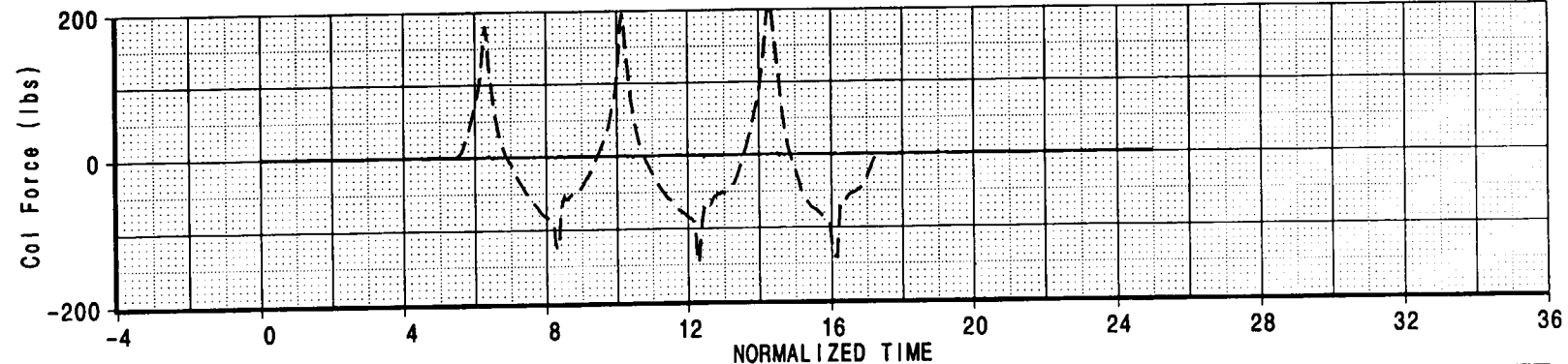
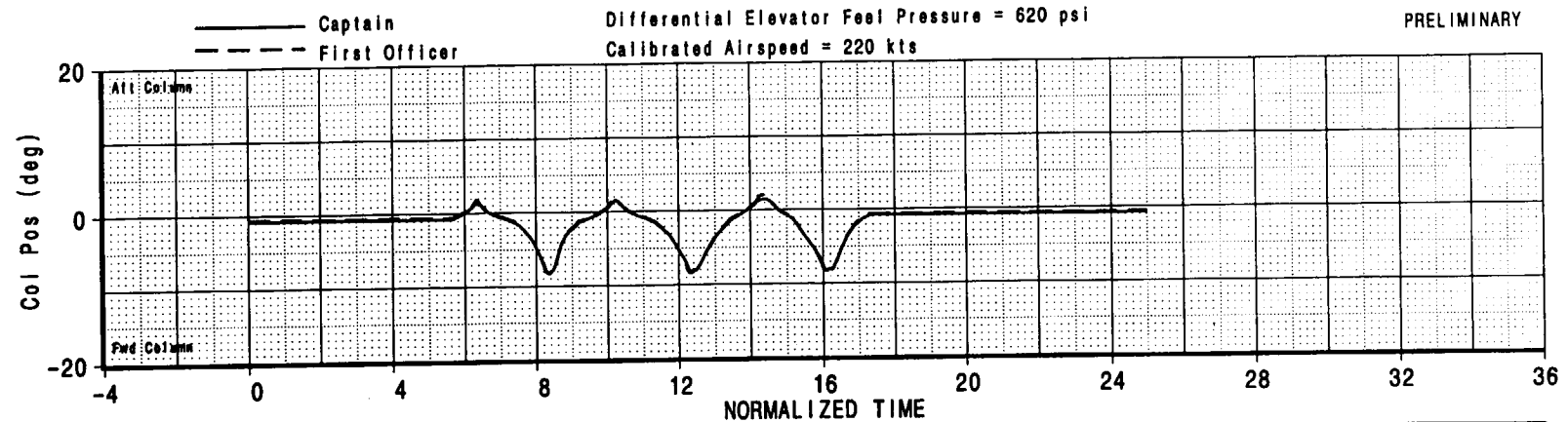
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<table border="1"> <tr> <td>CALC</td> <td>SEAN RUSSELL</td> <td>29Aug01</td> <td>REVISED</td> <td>DATE</td> </tr> <tr> <td>CHECK</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>APPD.</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>APPD.</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	CALC	SEAN RUSSELL	29Aug01	REVISED	DATE	CHECK					APPD.					APPD.					EGYPT AIR INVESTIGATION FWD CABLE BREAK/FWD CABLE JAM F/O MED COLUMN SWEEPS - COND .129			767-300F VR259 Test Date: 28-AUG-01							
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08/28/01 11:48:55.0000-11:49:20.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY



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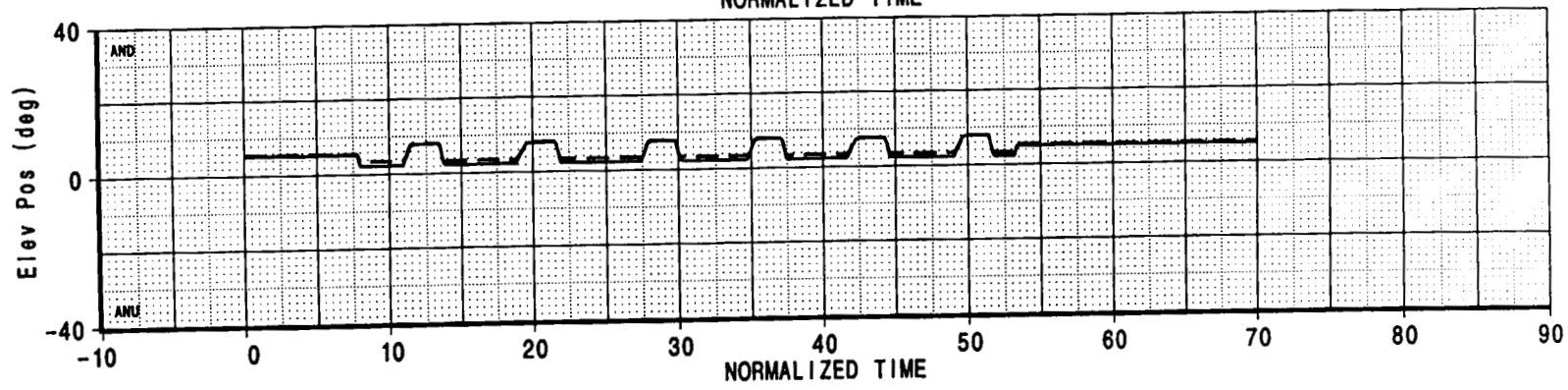
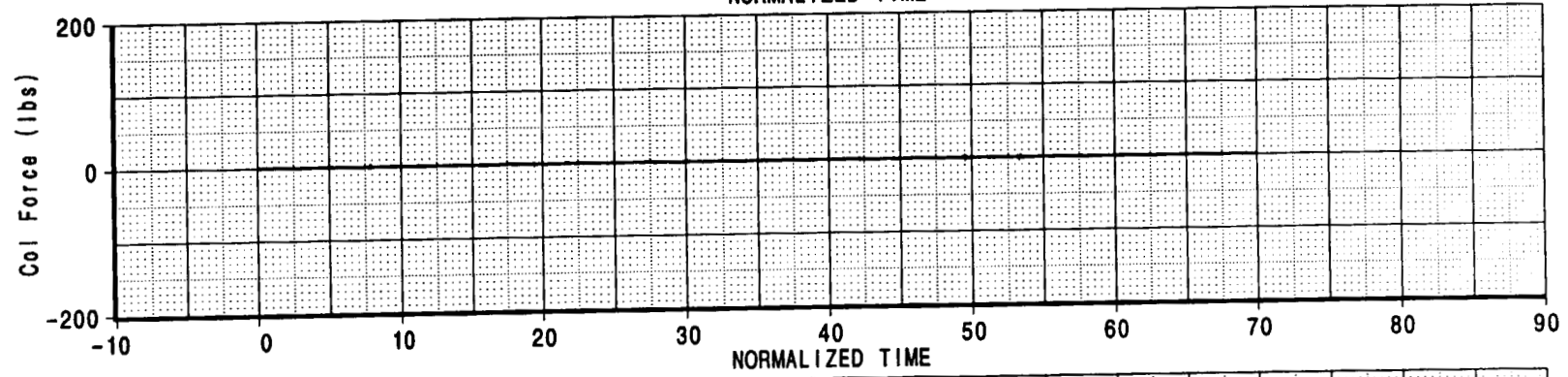
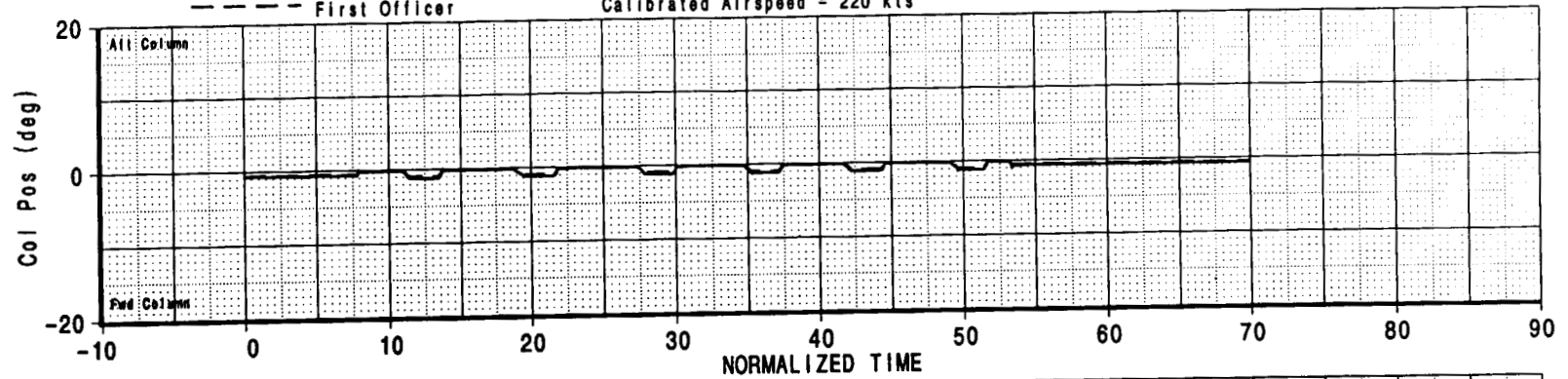
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SEAN RUSSELL	29AUG01	REVISED	DATE	
767-300F	VR259	Test Date:	28-AUG-01	PAGE
EGYPT AIR INVESTIGATION FWD CABLE BREAK/FWD CABLE JAM F/O FAST COLUMN SWEEPS - COND .130 				

08/28/01 11:59:40.0000-12:00:50.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY

— Captain  
 - - - First Officer

Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts



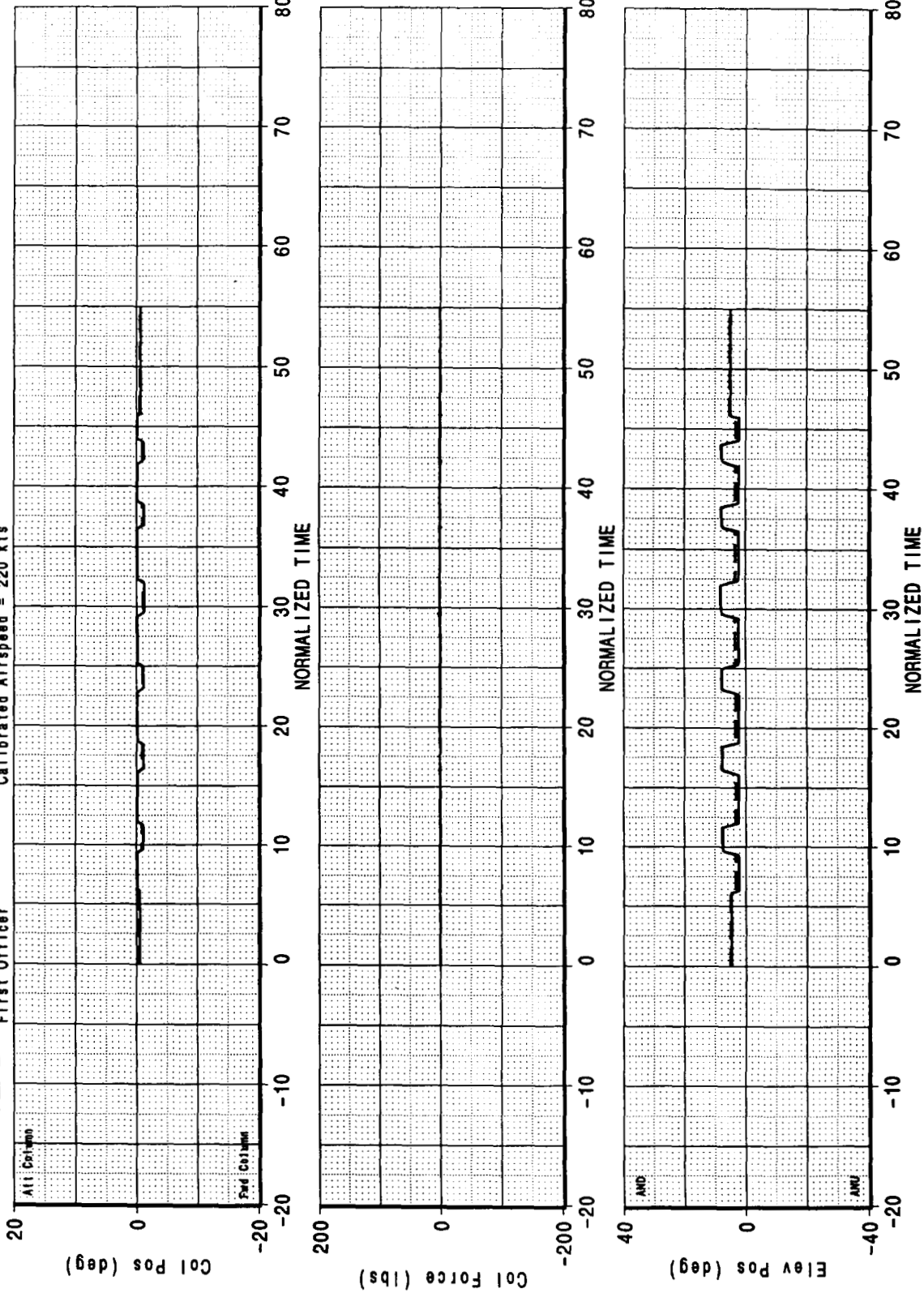
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SEAN RUSSELL	29Aug01	REVISED	DATE		
767-300F	VR259	Test Date:	28-AUG-01		
EGYPT AIR INVESTIGATION FWD CABLE BREAK/FWD CABLE JAM L AUTOPILOT SWEEPS - COND .131					
PAGE					

08/28/01 12:02:00.0000-12:02:55.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY  
 Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer



(AI: /project/11toys/control\_eyr/eyr\_1st/767/sectair/mw/11toys/egyp1\_01/11259\_01\_000\_07/VR259\_000\_07\_4710\_000  
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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 C AUTOPILOT SWEEPS - COND .132

767-300F  
 VR259

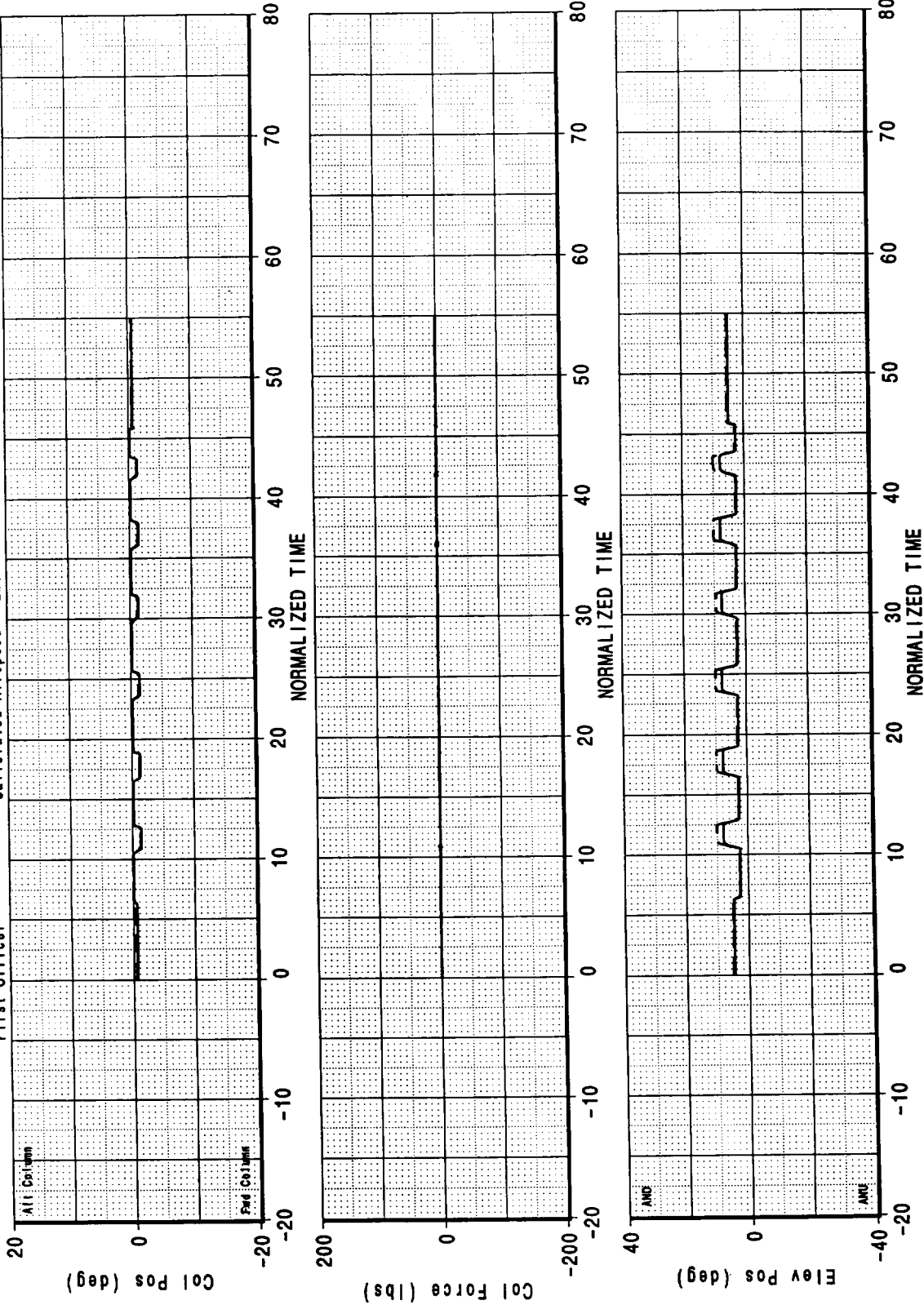
Test Date:  
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08/28/01 12:03:55.0000-12:04:50.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY  
 Captain  
 First Officer  
 Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts



(A): /projects/111sys/control\_sys/eps\_int/787/ana/in/anal1sys/egypt\_e1r/vr259\_g1\_000\_07/VR259\_000\_07\_4710\_000  
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 R AUTOPILOT SWEEPS - COND .133



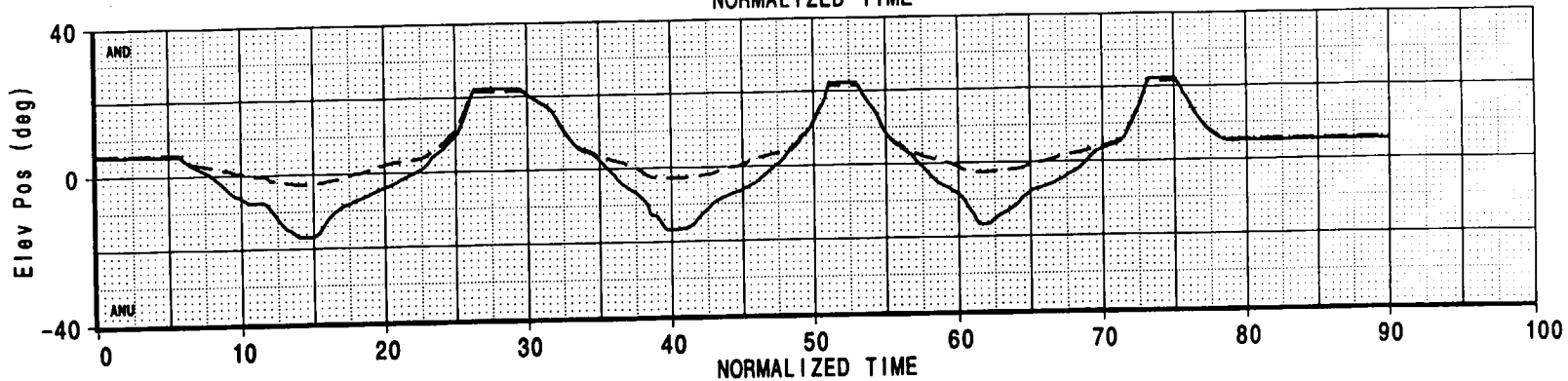
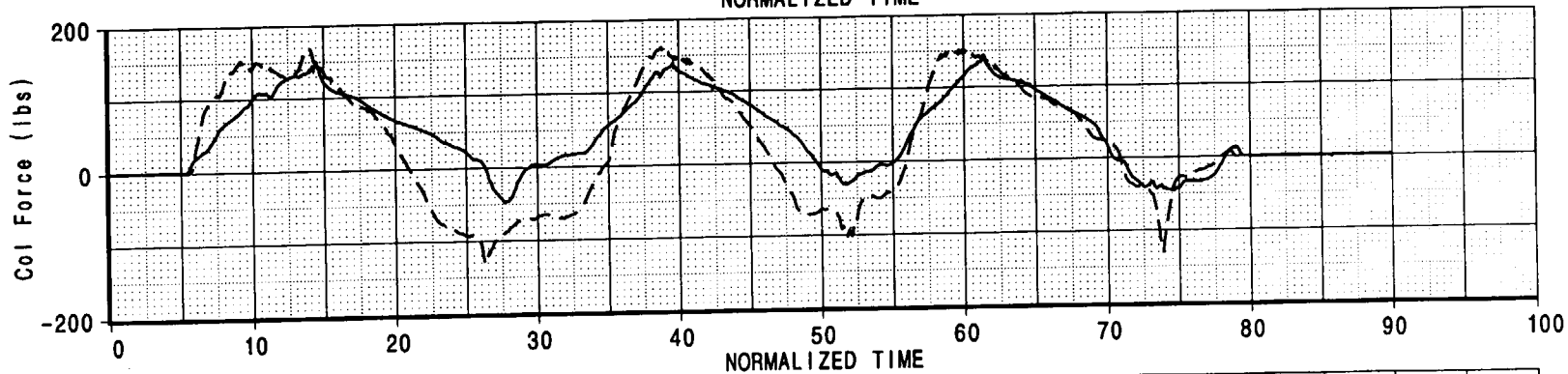
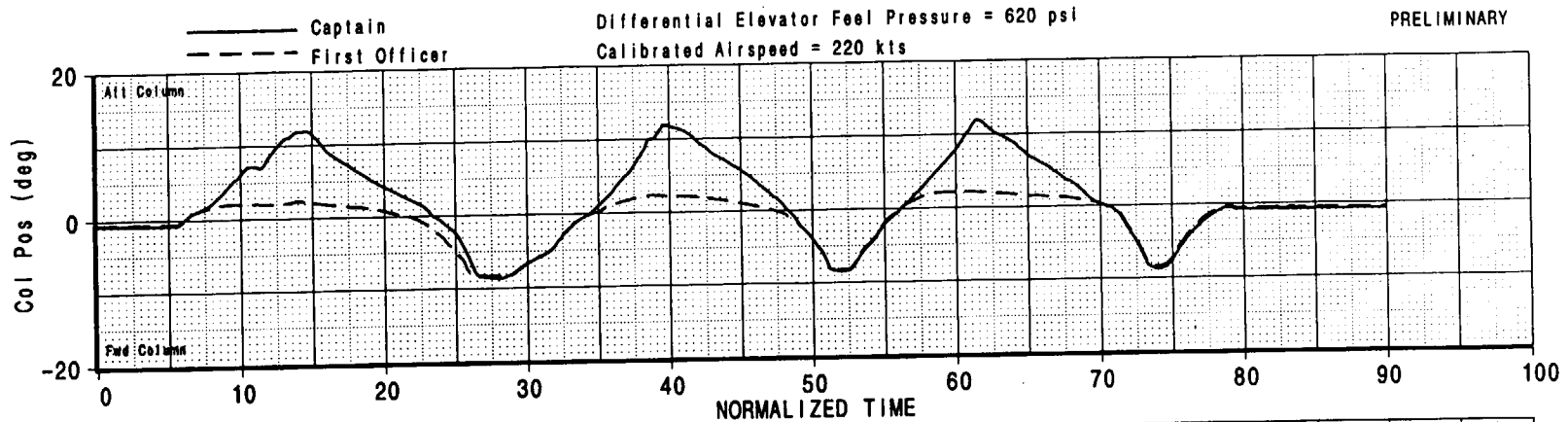
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08/28/01 11:51:55.0000-11:53:25.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY



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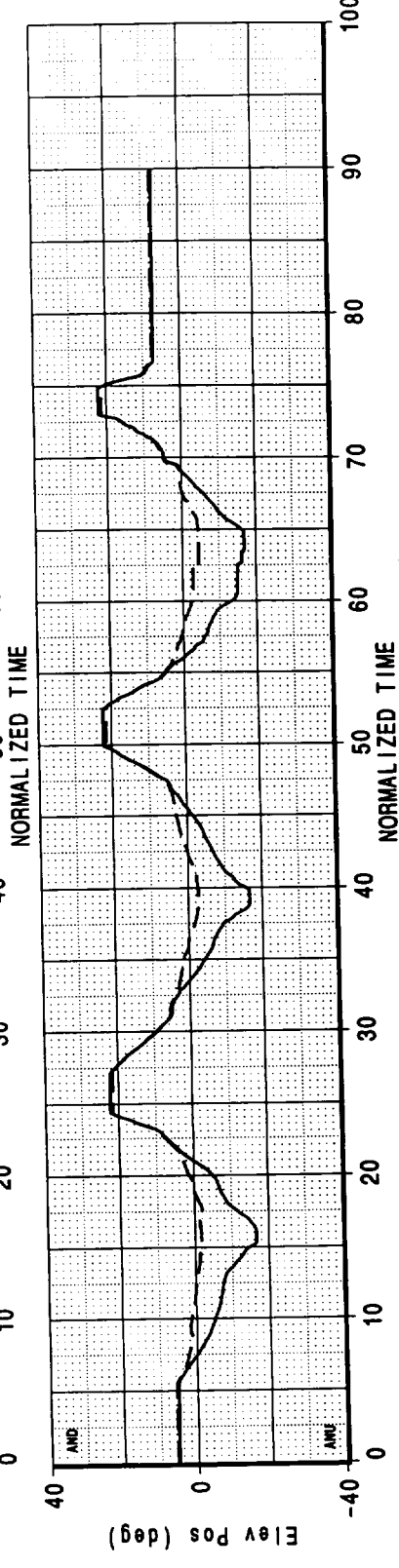
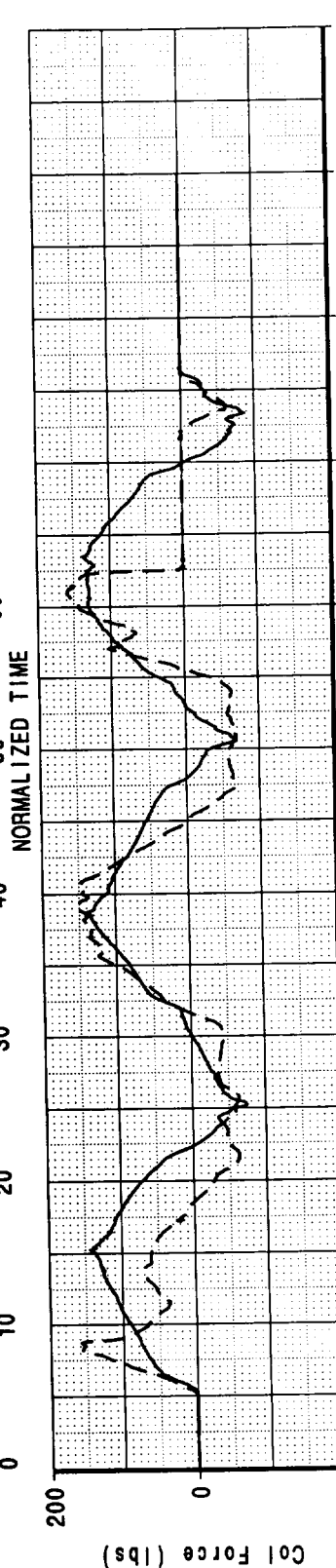
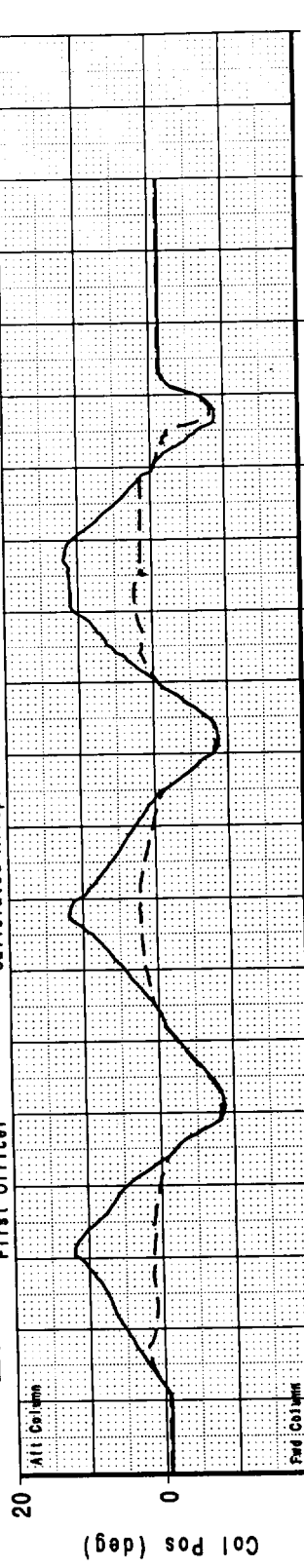
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EGYPT AIR INVESTIGATION FWD CABLE BREAK/FWD CABLE JAM CAPT & F/O SWEEPS - COND .134				
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				Test Date: 28-AUG-01
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PRELIMINARY

Differential Elevator Feel Pressure = 620 psi  
 Calibrated Airspeed = 220 kts

— Captain  
 - - - First Officer



[A]: /project/111sys/control\_eye/sys\_int/767/auatain/multisys/egyp\_al/vr259\_gi\_000\_07/vr259\_000\_07\_4716.eab  
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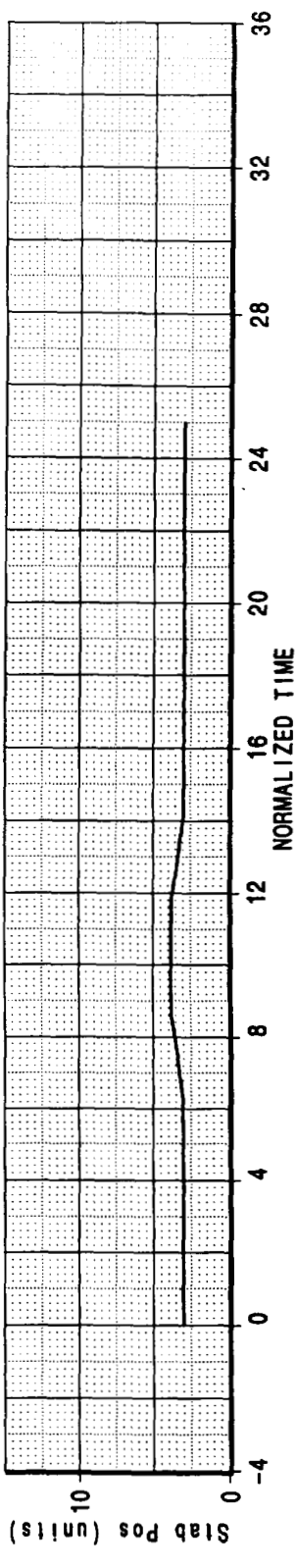
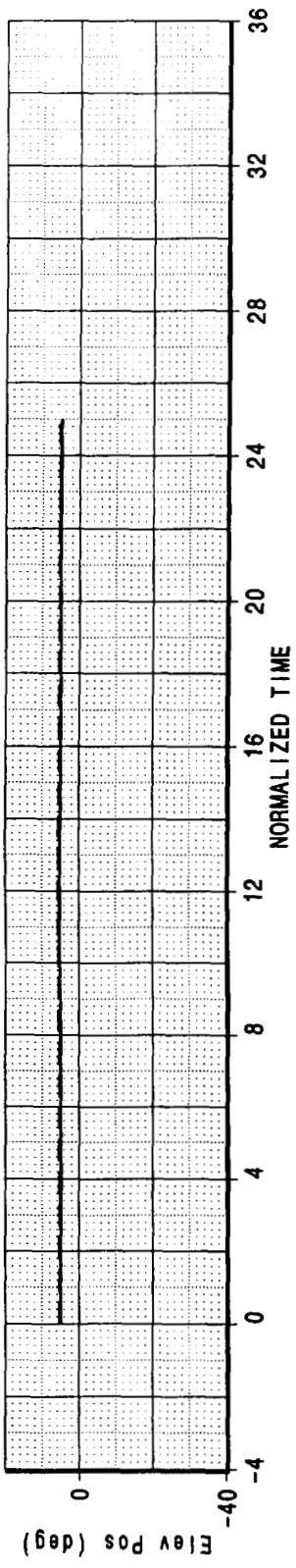
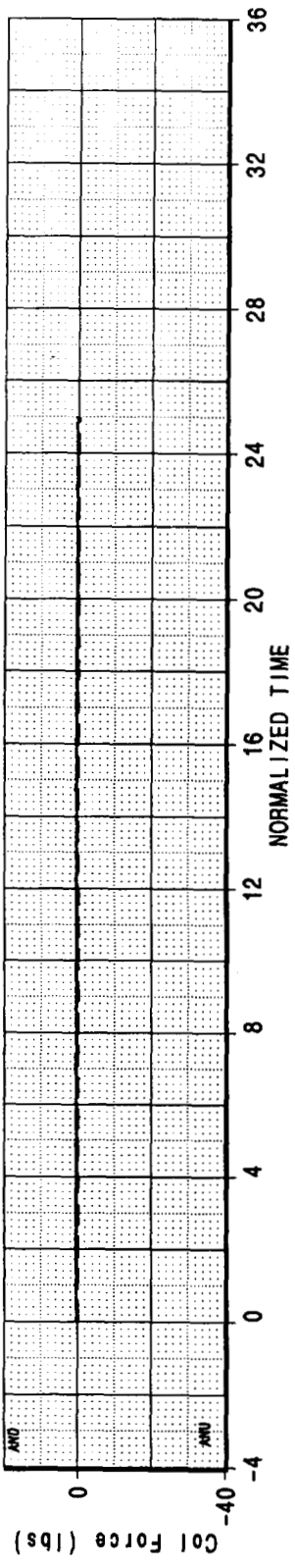
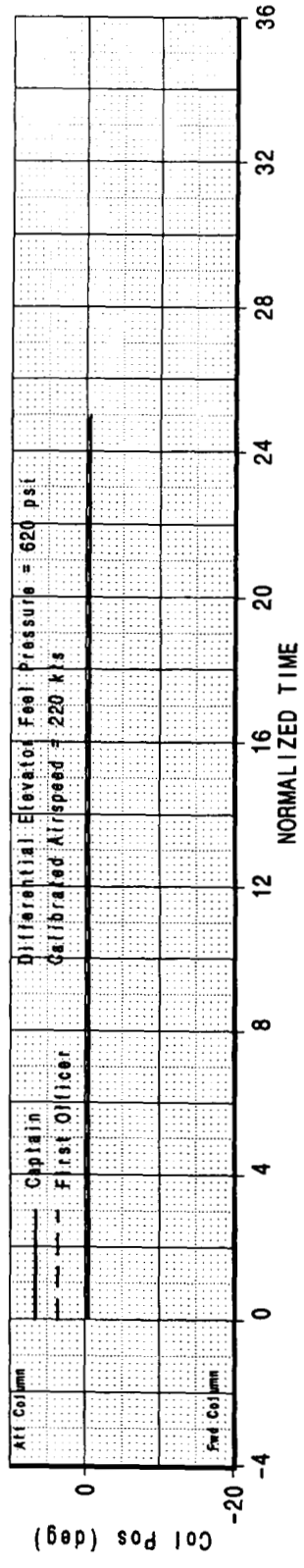
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EGYPT AIR INVESTIGATION  
 FWD CABLE BREAK/FWD CABLE JAM  
 CAPT & F/O SWEEPS - COND .134.1



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08/28/01 15:36:50.0000-15:37:15.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL PRELIMINARY



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CALC	SEAN RUSSELL	29Aug01	REVISED	DATE
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EGYPT AIR INVESTIGATION  
FWD CABLE BREAK/FWD CABLE JAM  
F/O STAB TRIM CHECK - COND .135

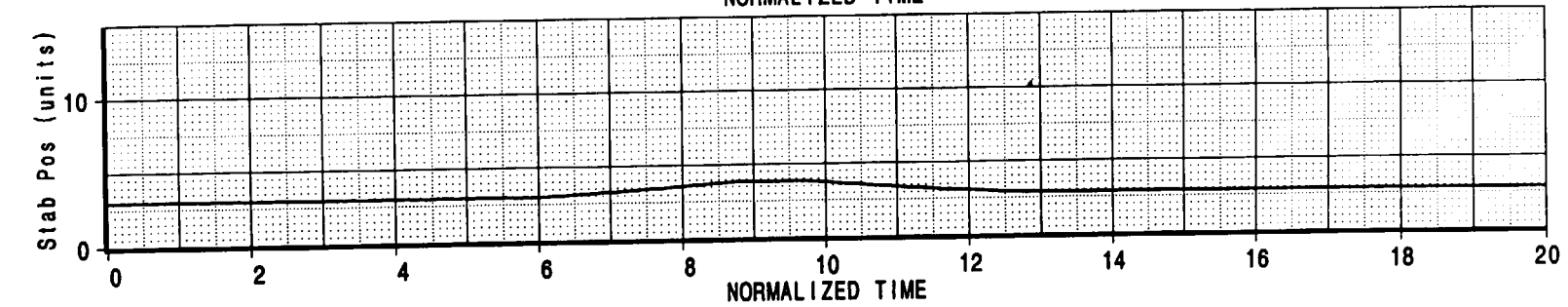
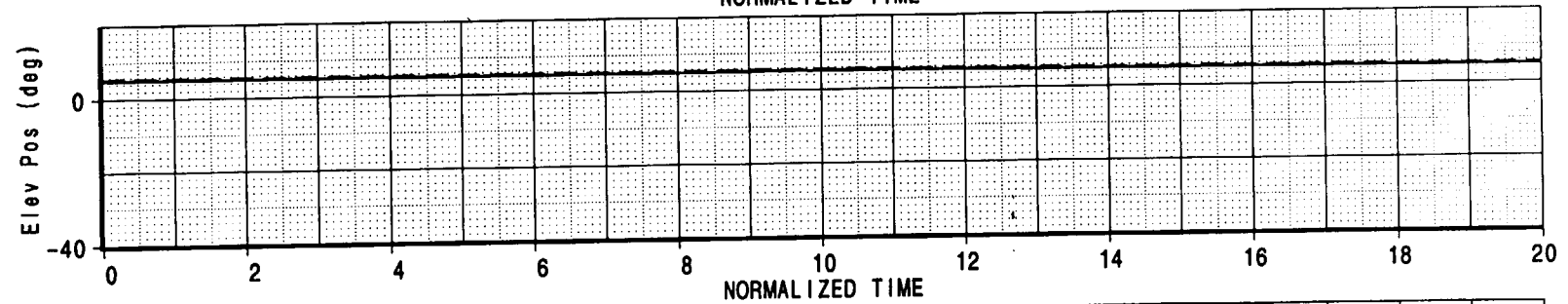
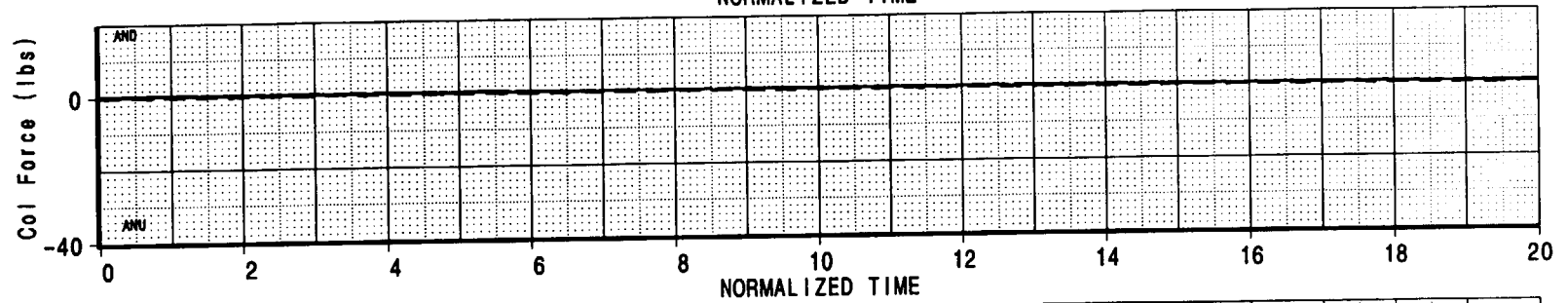
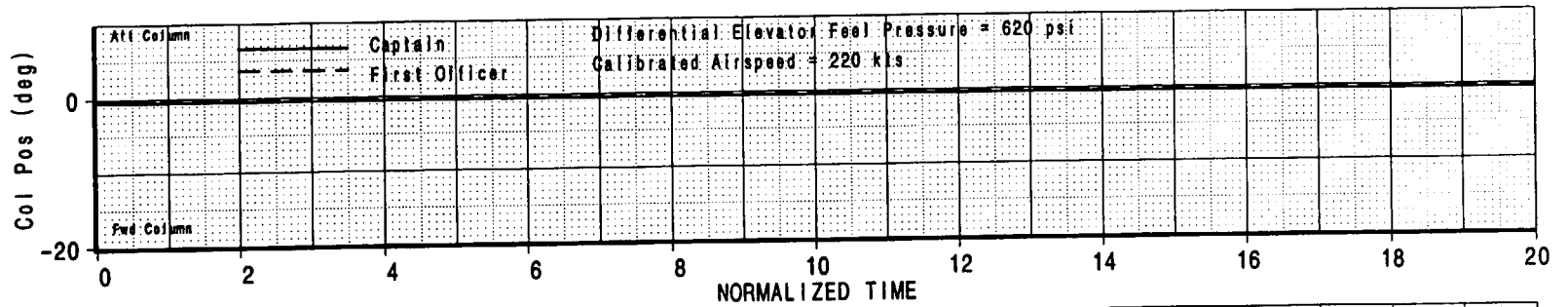
**BOEING**

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08/28/01 15:39:05.0000-15:39:25.0000 VR259 000-07 767-300 BUCKLEY, KIMBERL

PRELIMINARY



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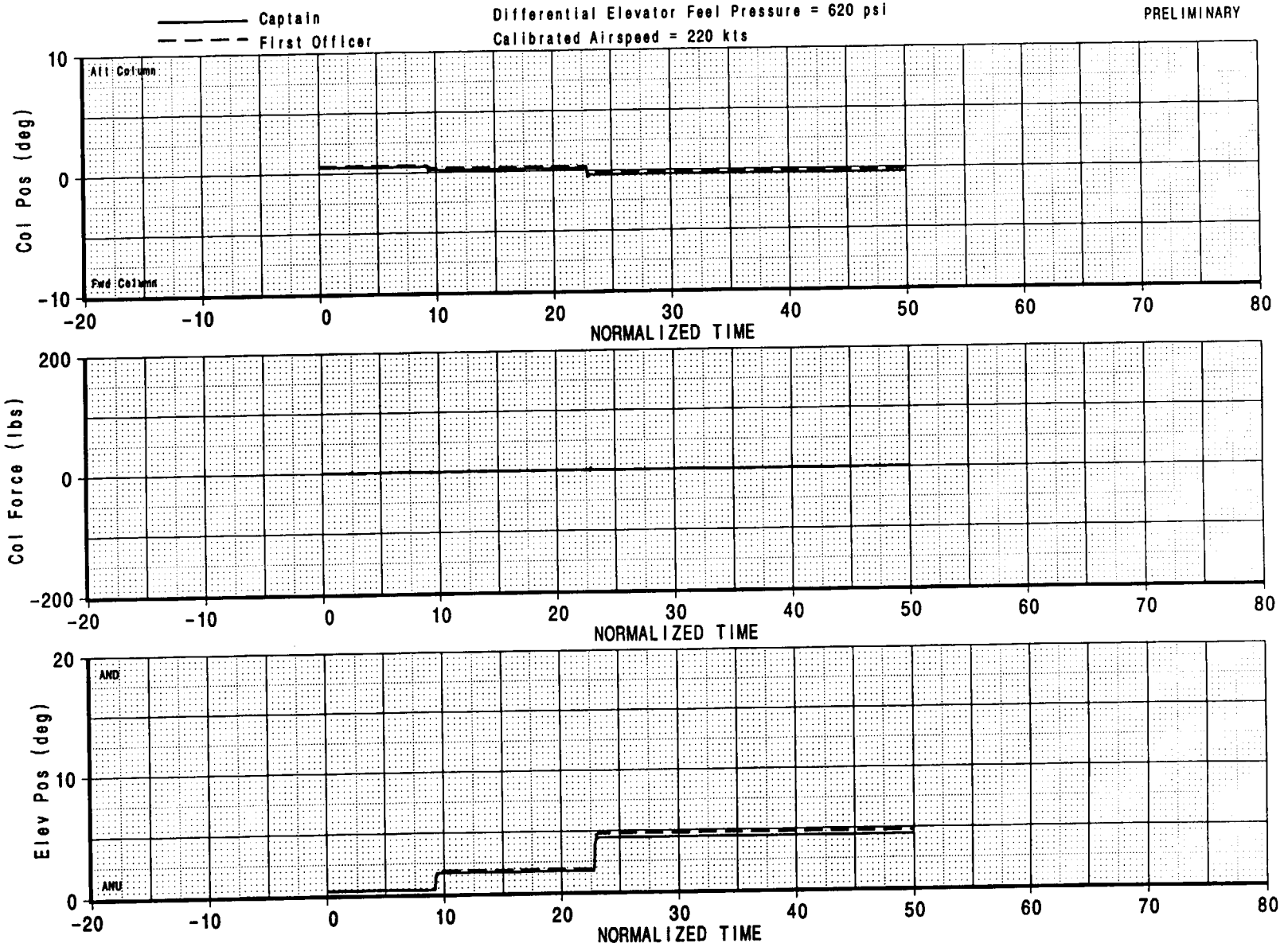
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EGYPT AIR INVESTIGATION FWD CABLE BREAK/FWD CABLE JAM CAPT STAB TRIM CHECK - COND .136				
				767-300F VR259
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PRELIMINARY



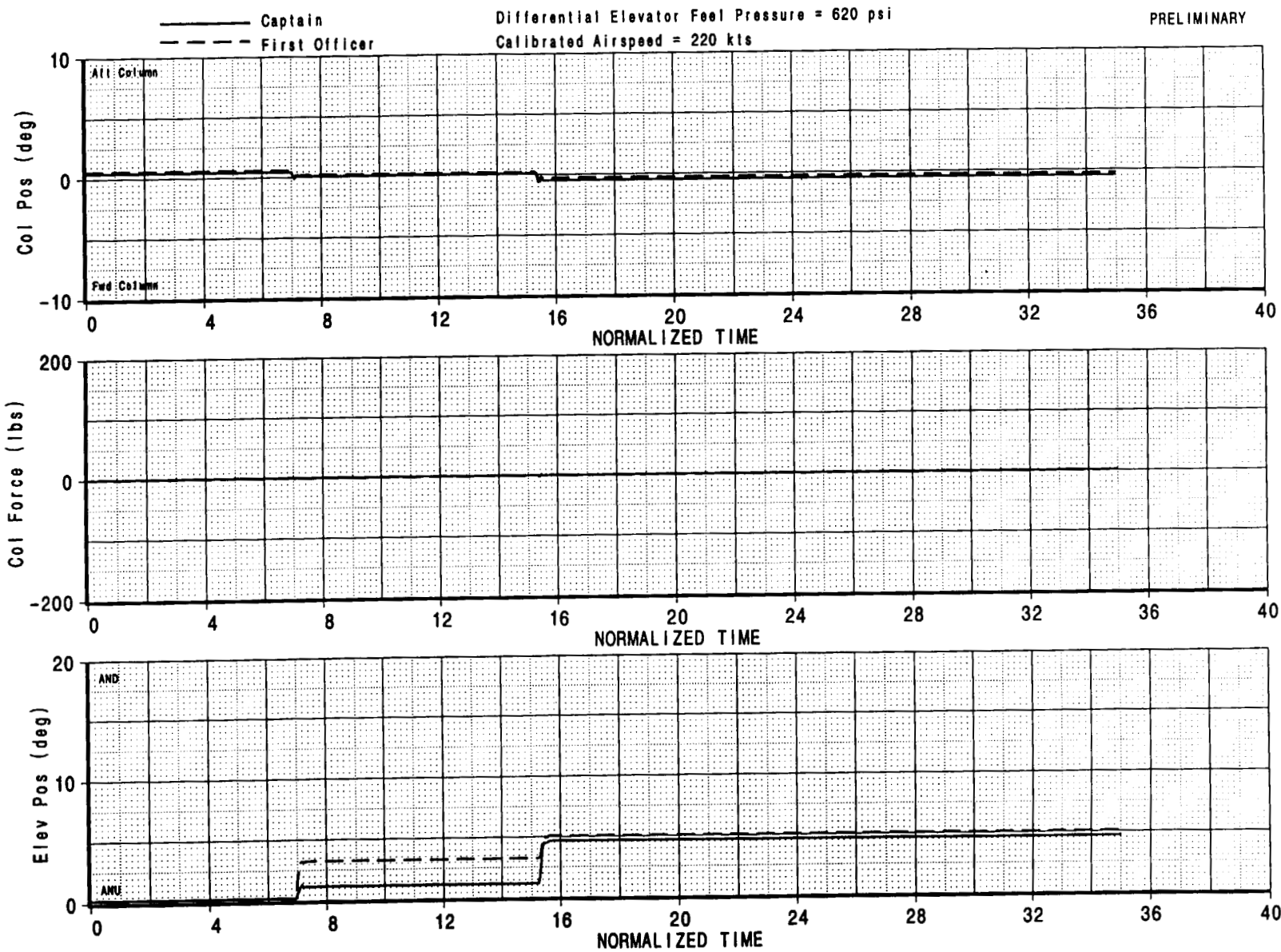
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CALC	SEAN RUSSELL	29AUG01	REVISED	DATE
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EGYPT AIR INVESTIGATION FWD CABLE BREAK/FWD CABLE JAM TRANSIENT RESPONSE WITH R A/P - COND .150				
				767-300F VR259
				Test Date: 28-AUG-01
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PRELIMINARY



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				767-300F VR259
				Test Date: 28-AUG-01
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