

6M-HA  
September 30, 1992

# MEETING NOTICE

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DATE: October 8, 1992  
TIME: 8:00 — 9:00  
LOCATION: 7-206 Building  
61B2 6th floor West  
SUBJECT/PURPOSE: Develop 737 Rudder PCU Retrofit Strategy

REQUESTED BY: Jim Hutton 74-02 965-0982

COORDINATED BY: Bob Gertula 6M-HA 234-55752

## ATTENDEES:

- ✓ Bernie Turner 6M-HA Flight Controls
- ~~Jim Hutton 74-02 Rtn. Technology~~
- ✓ FRANK SKO Dave Doring 6M-KJ Reliability
- ✓ George Dial 6M-WL Product Safety
- ✓ Kryn DeJonge 2H-80 Service Engr.
- ✓ Tom Harrington 6M-HW Stability & Cont.
- ✓ Tom Heineman 6M-HA Flt. Controls DER
- ✓ BOB CARLSON Ken Usui 69-10 Airworthiness
- ✓ HARV LUNE ✓ Rick Krantz 6M-HA Flight Controls
- ✓ Mike Hewett 14-HA Pilot DER
- ✓ Army Former 14-HM Air Safety Invest
- ✓ Al Umphenour 2H-30 Post Prod Eng
- ~~Al John 76-52 Legal~~
- ✓ Mary McCoy 39-HR Materiel Buyer

## cc:

- ~~Jim Metzger 6M-KA Flight Controls~~
- ✓ Barry Latter 74-20 Rtn. Engineering
- Harry Arnold 74-39 Chief Engineer

26-3-01



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737 MAIN RUDDER PCU - DUAL SERVO VALVE RETROFIT  
STRATEGY MEETING - OCTOBER 8, 1992

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GOALS OF MEETING

DEVELOP CONSENSUS ON RETROFIT PLAN TO PRESENT TO VP'S

PROVIDE SUPPORTING FACTS & DATA

*Jim - This is the pitch I read  
in the 10.8 mty. Notes  
on pages were made during  
meeting discussion. NO NUMBERS  
ARE FINAL!*

*ASL 10.12*

Subject: \_\_\_\_\_  
YDL DocId No. 1000000000  
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## FACTS AND SUPPORTING DATA

- 3 FUNDAMENTAL FACTS TO GET ACROSS TO VP'S
  - WE HAVE A PROBLEM
  - WE DON'T NEED TO GROUND THE FLEET
  - WE DO NEED A RETROFIT PROGRAM TO FIX IT

## SUPPORTING DATA

- VALVE DOESN'T MEET FAIL-SAFE DESIGN INTENT
  - SINGLE VALVE JAM GIVES POTENTIAL FOR REVERSAL
  - FAILURE ANALYSIS SAYS SINGLE VALVE JAMS ONLY REDUCE MAX RATE
- HAZARD ASSESSMENT
  - LOSS OF CONTROL JUDGED TO BE ON THE ORDER OF 10<sup>-8</sup> -> 10<sup>-10</sup>
  - NO KNOWN REVERSALS IN FLEET HISTORY OF 5 x 10<sup>7</sup> HOURS
  - THIS MEANS WE DON'T NEED TO PANIC
  - DOES NOT MEAN WE DON'T NEED TO FIX IT

NEED TO PROVIDE AT LEAST QUALITATIVE INFO  
ON WHAT EVENTS MAKE THIS UP.

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MDL Docket No. 1822, In re Air Crash Near Colorado Springs, Colorado on March 3, 1991;  
C.A. No. 94-N-9103 (D. Colo.)  
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