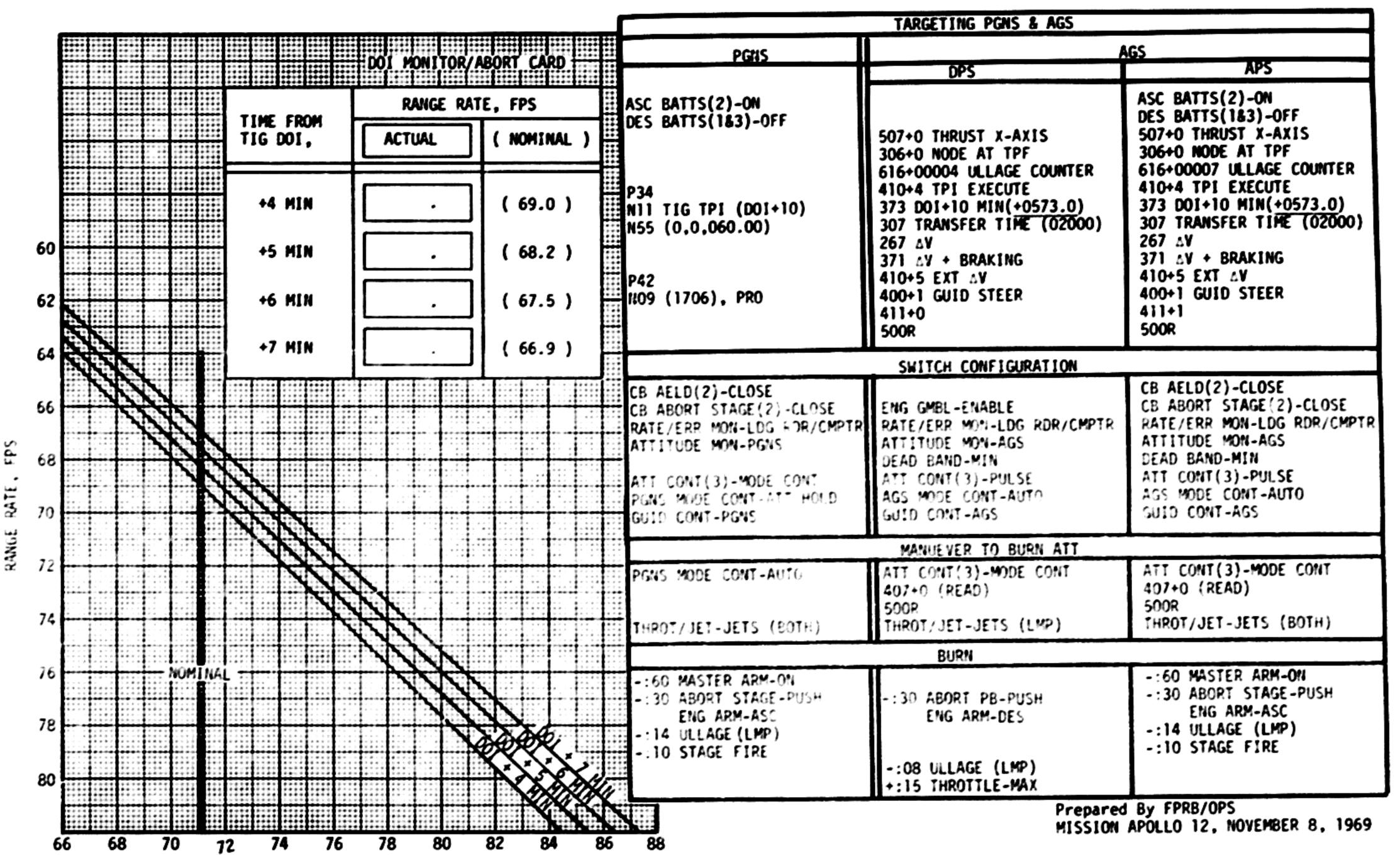


| APOLLO 12 | |
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| LM DATA CARD B | ООК |
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HORIZONTAL COMPONENT OF DOI BURN, FPS

FILE



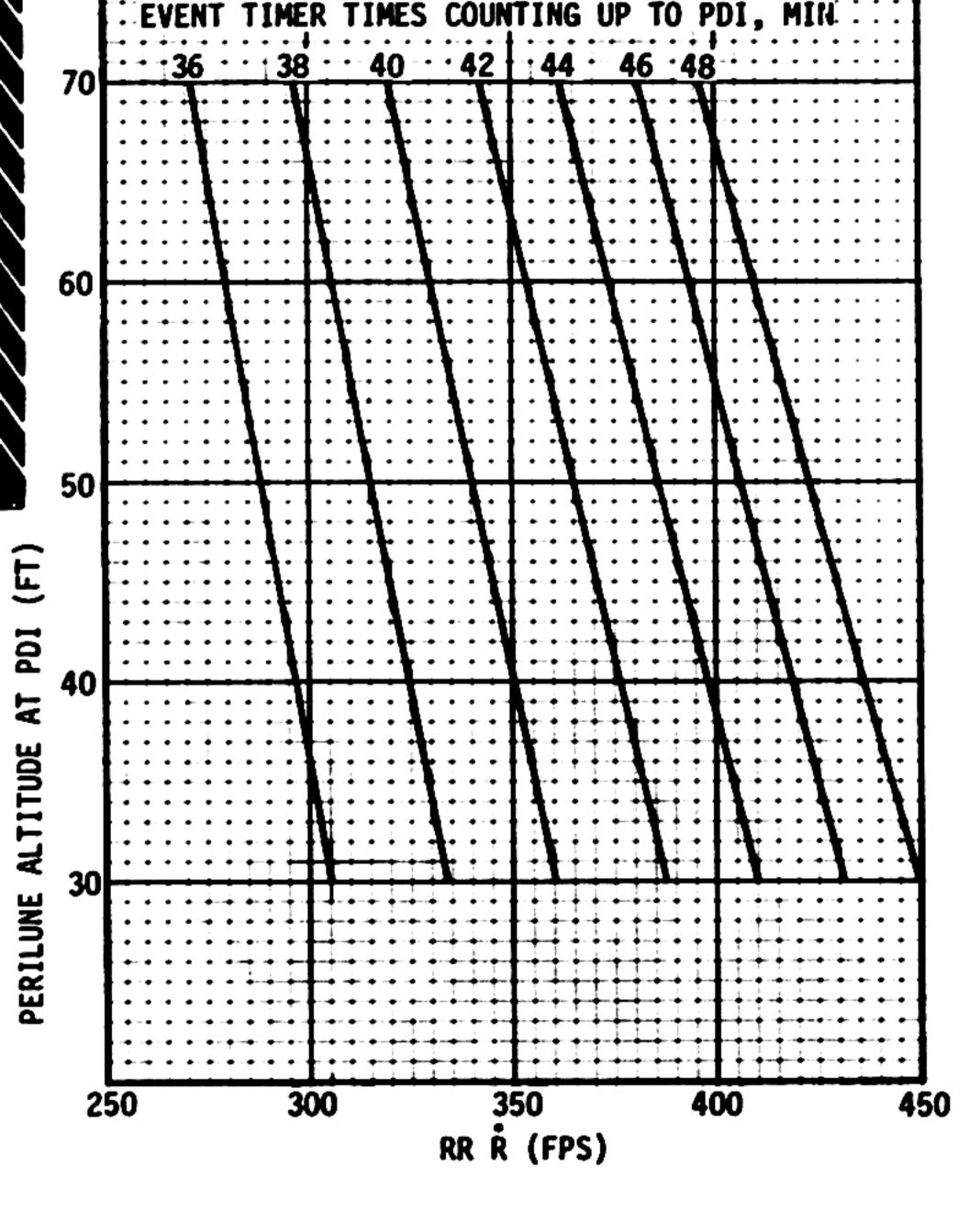
PREDICTED PERILUNE ALTITUDE CHECKS AT PDI

80_x J03



- 1. HO ULLAGE NO GO FOR PDI
- 2. HO IGHITIOH DELAY 5 SEC THEN SET DES ENG OVRD ON
- T/W > 1.6 AND BSKY CHANGES > 18fps/2 sec
- 4. ATT/RATE <5°/SEC
- 5. AH WITHIN LIMITS > 10 SEC AND NOT OUT OF LIMITS > 60 SEC
- 6. DATA GOOD AT >10,000 ft
- 7. IF NO THROTTLE DOWN BY P64 +15 SEC ABORT
- 8. BINGO FUEL 1 MIN 34 SEC AFTER LOW LEVEL OR WHEN FUEL QTY <2% UNLESS LANDING IMMINENT.

MOTE: FOR FLASHING LR ALT OR VEL LIGHTS THAT ARE PRECEDED BY A STEADY LR LIGHT, CYCLE THE RADAR TEST SWITCH.



MPAD DATA MODIFIED BY FPRB/OPS MISSION APOLLO 12, OCTOBER 27, 1969

PAGE

| THROTTLE DOW! | :: | | |
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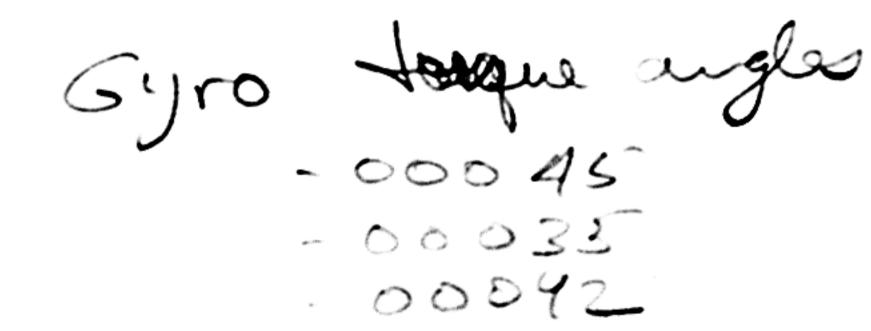
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ASCENT RULES

PGNS

<u>AGS</u>

UNDERBURN

- < 400 fps(20 SEC) HULL RESIDUALS AUTO, A/H 15 fps
- > 400 fps(20 SEC) A/H BURN Hp AUTO, A/H 15 fps

INSERTION

PGHS & AGS WITHIN 10fps TRIM ACTIVE SYSTEM PGHS & AGS DIFFER > 10fps OPTIONS:

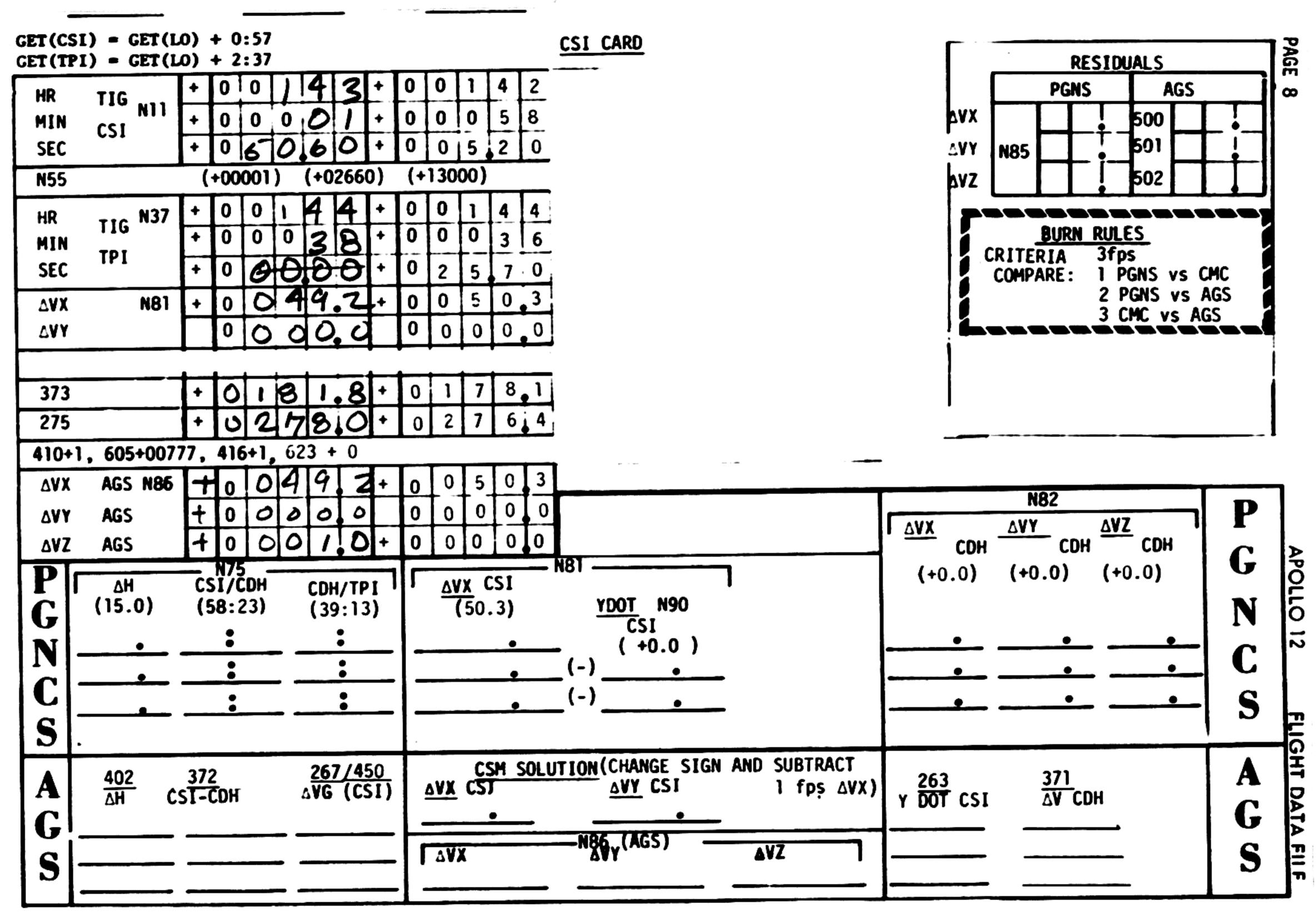
- a. TRIM AGS OR PGHS (X OHLY)
- b. TWEAK @ 2 MIN (10° OHN OR 253° FDAI)

ATT/RATE ERRORS > 10°/SEC

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TPI CARD

RESIDUALS PGHS AGS ΔVX 500 ΔVY N85 501 ΔVZ 502

BURN RULES

CRITERIA: X=2fps, Y=5fps, Z=6fps COMPARE: 1. PGNS vs CMC 2. PGNS vs AGS 3. CMC vs AGS

4. IF ALL ABOVE FAIL, BURN
CMC SOLUTION.

If TIG TPI > 8 Min EARLY - RECYCLE
P32 WITH TIG EQUAL TO NOMINAL TIG - 8 MIN.

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| G | TIG TPI | HP ΔV TP1 (43.8) | ΔV TPF (31.6) | (22.0) | (-0.2) | (-11.0) | ΔVF7A- (24.8) | $\Delta VR/L-$ | $\frac{\Delta VD^{+}/U^{-}}{(0.0)}$ | G |
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| | 373 TIG TPI (+0276.4) | <u>267</u> ∆VTP1 | ΔV TPI+TPF | AVX | AVY | NGE SIGN) <u>AVZ</u> | AVX | AVY | MGE SIGN) | A |
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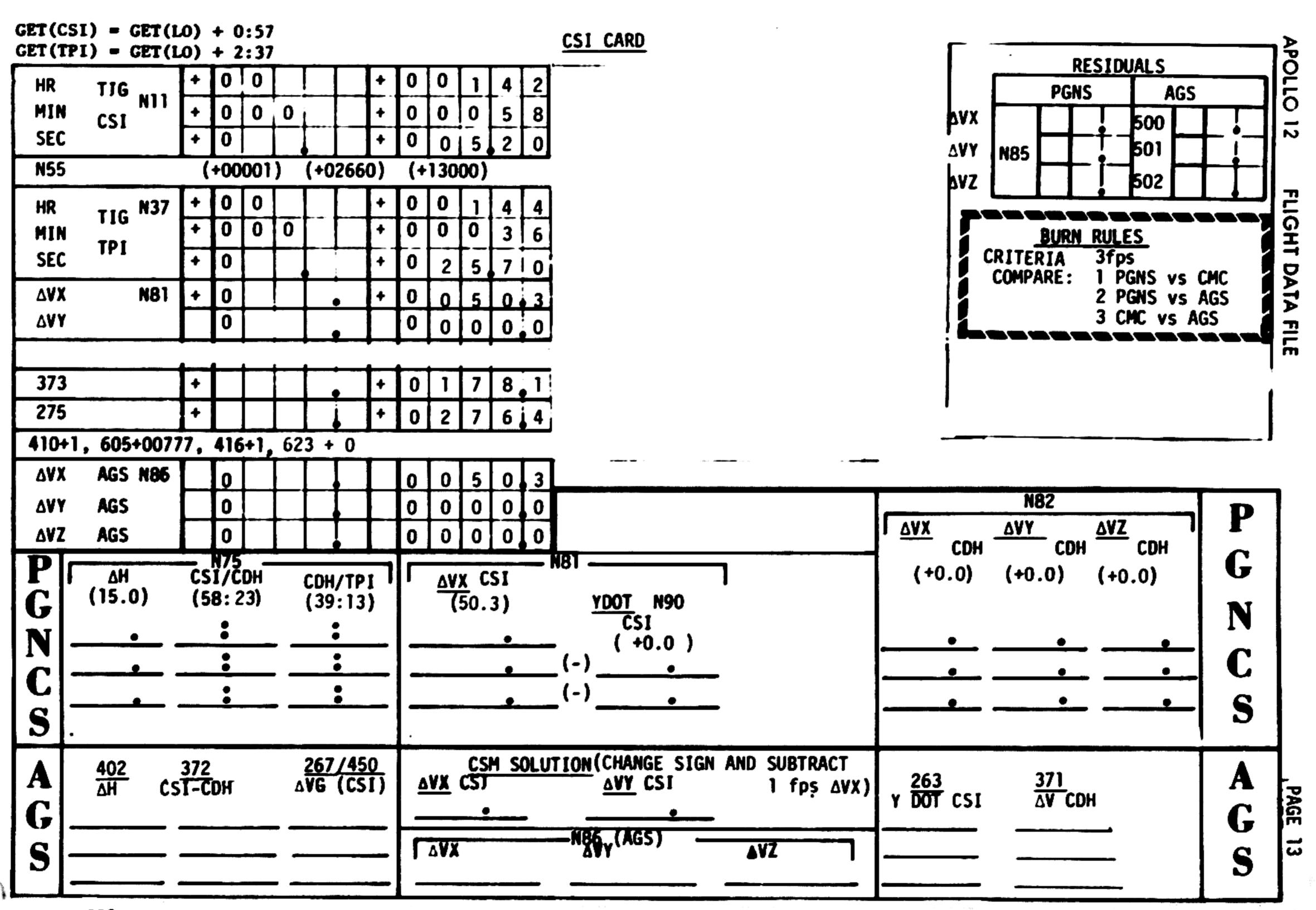
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