



Space Shuttle Mission 2007



Designed By: Michael Swannick / Uri Ben-Avraham / Dee-Jay

Mission Checklist

TERMINAL PHASE - RPM - TORVA

VBAR Approach

Undocking

TORS / TORF

Final Separation

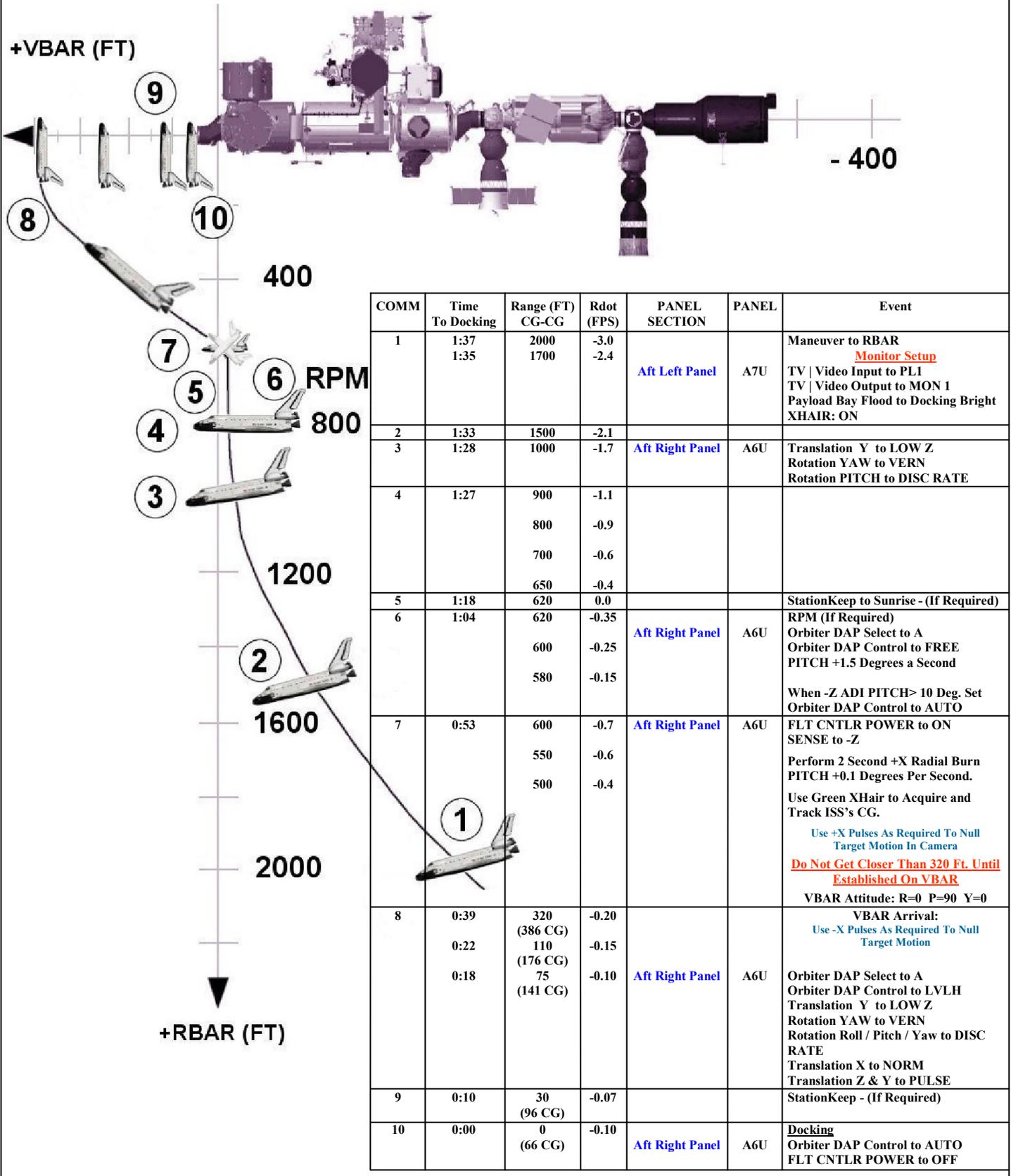


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COMM	UnDocking Time	Range (FT)	PANEL SECTION	PANEL	EVENT
0	-0:03	0 (66-CG)	Aft Right Panel	A6U	Set ADPS And DAP For Undocking Set AFT FLT CNTLR POWER To ON Set SENSE To -Z Set ORBITER DAP SELECT To A Set ORBITER DAP CONTROL To LVLH Set Translation Y To Low Z Set Rotation YAW To VERN Set Rotation PITCH To DISC RATE Set Translation X To NORM Set Translation Y & Z To PULSE
1	0:00 0:01 >0:03	0 2 >30 (96-CG)	Aft Left Panel	A8L	<p style="text-align: center;"><u>UNDOCKING</u></p> Perform Burns At 10 Sec. Intervals To Build Opening Rate of 0.15 FPS Perform Burns At 10 Sec. Intervals To Build Opening Rate of 0.2 FPS
2	0:07	75 (141-CG)	Aft Right Panel Aft Left Panel	A6U A7U	Set Translation X & Z To NORM Set Translation Y To PULSE Set TV Video Input To PL1 Set TV Video Output To MON 1
3	0:29	>400 (CG-CG)	Aft Right Panel	A6U	<p><u>Flv Around</u></p> Set ORBITER DAP SELECT To A Set ORBITER CONTROL To FREE StationKeep Until Sunrise (If Necessary) 1/4 Lap TORS Between 400 ft. and 600 ft. (CG-CG), Null Opening Rate Outside 600 ft., Perform 1/2 Lap TORF Between 600 and 700 ft. Pitch up + 0.1 Deg/Sec. When ISS is in the center OH window, initiate TORS with +X radial burns (2 sec burns on 15 sec intervals). Maintain ISS in the center of the OH window with +/-X burns at 600 ft. at 600 ft. null closure with -Z burns. Maintain ISS on the OH window with -X burns. On last 1/4 lap allow range to open to 700 ft., compensate for ISS drift with +X burns.
4	0:57	>750 (CG-CG)	Aft Right Panel	A6U	Stabilize On ATT P=0, Y=0, R=0 Set ORBITER DAP SELECT To A Set ORBITER CONTROL To AUTO Set Translation Z To NORM Set Rotation YAW / PITCH / ROLL To DISC RATE Set Translation X / Y / Z To NORM OMS SEP: 3.0 fps +X Burn

