

STS-111 POST LAUNCH FILM REVIEW
KSC Photo/Video Analysis Team
7 June 2002

SIGNIFICANT ANOMALIES

None.

MINOR ANOMALIES

None.

FUNNIES

None.

OBSERVATIONS

A late occurring free-burning GH2 flash occurred approximately 1.8 seconds into SSME #1 start-up. (E-2, E-3, E-19, E-20)

No stud hang up were observed on any of the SRB hold-down posts.

SRB holddown post shoe rocked slightly on HDP's #2 and #6. (E-8, E-13)

Small debris particle ejected from near DCS on HDP #5 at T-0. (E-12)

Small particle falls out from in between thermal curtain and SRB nozzle near HDP #6. (E-13)

Several small debris particles come loose from LO2 TSM access platform (north side) during SSME ignition. (E-17)

GH2 vent line retraction appeared normal. (E-41, E-42, E-61)

No OMS pod flexing observed. (E-17, E-18)

Deluge water pipe leaking near HDP 8. (E-14)

Several tile surface chips were noted from base heat shield. Largest one appeared near 6 o'clock position of SSME #2 (E-20). This is a common occurrence due to SSME ignition acoustics.

Free-burning GH2 blown under body flap by wind during SSME ignition.

Several ice particles fell from ET/ORB umbilicals during SSME ignition.

Vapors on ET aft dome and SRB stiffener rings were observed after T-0.

Ice particles fell from LH2 / LO2 TSM T-0 disconnects.

Small pieces of deck debris were blown across MLP deck during SSME and SRB ignition.

SRB throat plug, aft skirt instafoam pieces, and water trough material ejected from exhaust hole.
No contact with vehicle.

NOTES

All high speed film items have been reviewed.

No anomalies were observed in the films and videos that would be a concern for re-entry and landing.

Armando Oliu
NASA – KSC