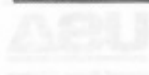


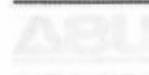
<b>CERTIFICATION STATUS</b>	
<b>COFR EXCEPTIONS</b>	
<b>STS-114/BI125</b> <b>FLIGHT READINESS REVIEW</b> <b>PROGRAM</b>	3 open P-FCB approval Approved by the V and M and Mission Panel (MSP)
<b>June 29, 2005</b> <b>Solid Rocket Booster</b>	1 open H-FCB approval to OSB Pending P-FCB approval to OSB Approved by the V and M and Mission Panel (MSP)



SRB-2



<b>STS-114 FLIGHT READINESS REVIEW</b>	
<b>AGENDA</b>	Presenter: Michael Wyckoff Organization/Date: USA-SRB/6-29-05
<ul style="list-style-type: none"> <li>• Certification Status           <ul style="list-style-type: none"> <li>• Status reported as of 6-28-05</li> </ul> </li> <li>• Special Topics           <ul style="list-style-type: none"> <li>• SRB Design Changes and Major Concerns Resolved</li> <li>• SRB Recovery Vessel Upgrades and Postflight Enhancements</li> <li>• SRB Accepted Risk Causes and Controls</li> <li>• STS-300 Launch on Need (LON) Readiness</li> </ul> </li> <li>• Readiness Assessment</li> </ul>	



SRB-2



CERTIFICATION STATUS COFR EXCEPTIONS		Presenter: Michael Wyckoff
		Organization/Date: USA-SRB/6-29-05
Category	Remarks	Constraint
Failure Modes and Effects Analysis/ Critical Items List (FMEA/CIL)	3 open FMEA/CIL updates <ul style="list-style-type: none"> <li>Pending PRCB (Outside of Board (OSB)) approval               <ul style="list-style-type: none"> <li>Approved by Level V, IV, and III and Marshall Safety Review Panel (MSERP)</li> </ul> </li> </ul>	Prelaunch MMT
Hazard Reports (HR)	7 open HR updates <ul style="list-style-type: none"> <li>Pending PRCB approval (6 OSB)               <ul style="list-style-type: none"> <li>Approved by Level V, IV, and III and MSERP</li> </ul> </li> </ul>	Prelaunch MMT



SRB-3



CERTIFICATION STATUS COFR EXCEPTION		Presenter: Michael Wyckoff
		Organization/Date: USA-SRB/6-29-05
Category	Remarks	Constraint
Nonconformances	<ul style="list-style-type: none"> <li>4 open nonconformances</li> <li>Suspect Confined Detonator Fuse Initiator (CDFI) mica disc/insulator debris concern               <ul style="list-style-type: none"> <li>Material Review Board (MRB) use as is</li> </ul> </li> <li>Pending released CR S062613A PRCB directive for approved expected debris table (PV4055756, PV4055777, PV4056642, and PV4056643)</li> </ul>	Prelaunch MMT



SRB-4



<h1>SRB DCR EFFORTS</h1>	Presenter: Michael Wyckoff
	Organization/Date: USA-SRB/6-29-05

**SRB Global**

Debris

- Transport
- Impact Tolerance \*

TPS Issues

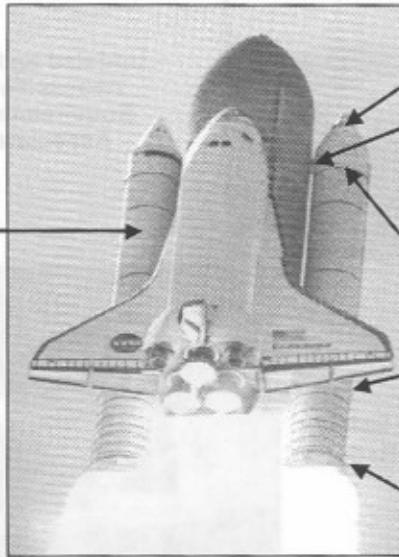
- Material Age Life
- TPS Recertification
- Extreme Wet and Cold

Loads and Environments

- Stud Hangup
- Rollout Fatigue
- Roll Maneuver
- Systems Tunnel
- STS-114 Flight Mission Specific

Pyro

- CDF/CDFA
- NSI Pressure Cartridge



**SRB Location Specific**

Separation/Deceleration

- BSMs – Igniter, Aeroheat Shield, Plume, FOD, and Throat
- Bolt Catcher/NSI PC
- Forward/Aft Separation Bolts
- Thruster Pressure Cartridge
- Forward Skirt Aft Clevis Ring/Lower Bay

Imaging and Instrumentation

- ET Observation Camera
- ET RTF Instrumentation

ET/SRB Attach

- ET Attach Rings and Aft Struts
- Diagonal Strut Restraint Cable
- EPDM Covers

Aft Assembly

- FIV Connector and Backshell
- Aft Skirt GN<sub>2</sub> Purge (Prelaunch)
- Blast Container

\* Pending final SICB approval and release of exception to NSTS 07700, Volume X for violation of 1.4 strength factor of safety due to debris impacts

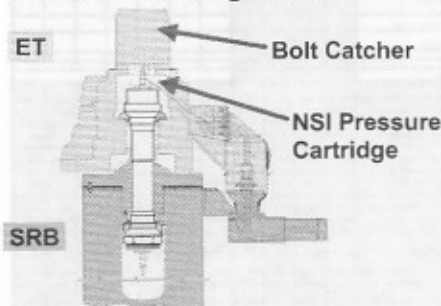


SRB-5

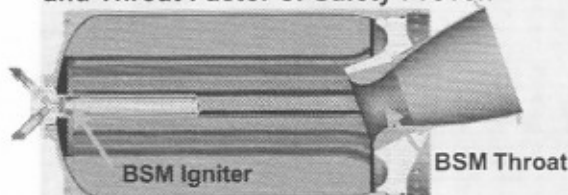


<h1>SRB DESIGN CHANGES AND MAJOR CONCERNS RESOLVED</h1>	Presenter: Michael Wyckoff
	Organization/Date: USA-SRB/6-29-05

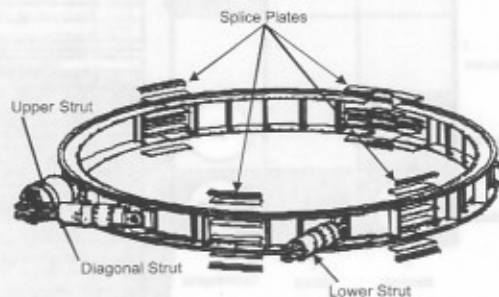
**Bolt Catcher Redesign and NSI Pressure Cartridge Retention Device**



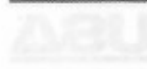
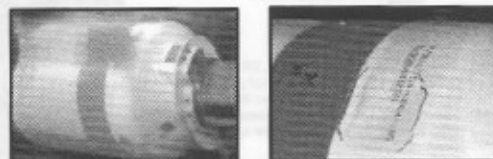
**BSM Erratic Pressure Eliminated and Throat Factor of Safety Proven**



**ET Attach Ring Strength and Safe Life Issues Resolved**



**SRB Debris Identification and Impact Analysis**



SRB-6



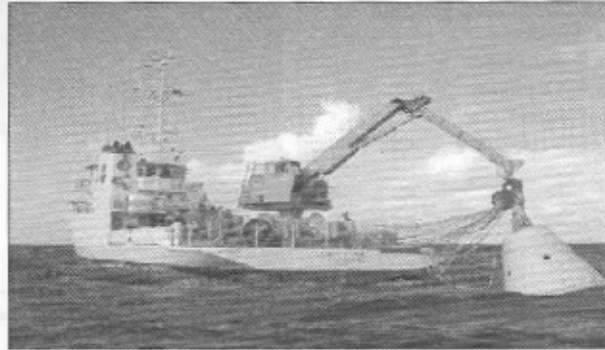
# SRB RECOVERY VESSEL UPGRADES AND POSTFLIGHT ENHANCEMENTS

Presenter:  
Michael Wyckoff  
Organization/Date:  
USA-SRB/6-29-05



Updated and Improved Postflight Assessment and Photograph Requirements, Processes, and Associated Documentation

Recovery Vessel Upgrades to Safety, Communication and Weibel Radar Debris Tracking

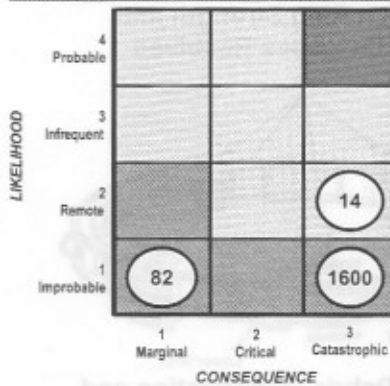


SRB-7



# SRB ACCEPTED RISK CAUSES AND CONTROLS

Presenter:  
Michael Wyckoff  
Organization/Date:  
USA-SRB/6-29-05



**Classification**  
 [Dark Grey] Unacceptable Risk  
 [Light Grey] Accepted Risk  
 [White] Controlled Risk

Note: Proposed new hazard I-00-02, SRB Interface Debris Hazards is not shown (all proposed causes in report are Controlled Risk)  
 \*Note: Hazard report has proposed changes for approval prior to RTF. (all proposed new causes are Controlled Risk)  
 \*\*Note: Hazard report references external project hazard causes or causes in other SRB reports.

Accepted Risk Hazard Report (R)		CONSEQUENCE										
SRB	CAUSE	1	2	3	4	5	6	7	8	9	10	
	<b>Controlled Risk Hazard Report (C)</b>											
	SRB-7											
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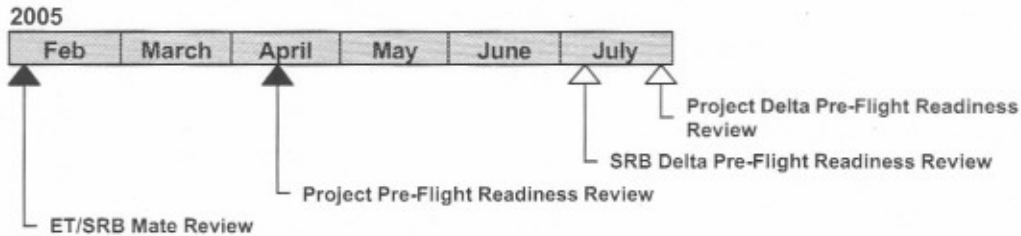
SRB-8



<h1>STS-300 LON READINESS</h1>	Presenter: Michael Wyckoff
	Organization/Date: USA-SRB/6-29-05

STS-300 Launch on Need (LON) Readiness

**STS-121/BI124 Certification of Flight Readiness**





- Pending completion of open work, there are no constraints to flight for STS-121
  - Current significant items
    - Left hand TVC tilt hydraulic system air entrainment issue
    - Planned right hand aft skirt hot fire on Pad due to replacement of tilt system hydraulic pump

SRB-9




<h1>READINESS ASSESSMENT</h1>	Presenter: Michael Wyckoff
	Organization/Date: USA-SRB/6-29-05

- Pending completion of planned open work and identified COFR exceptions, there are no constraints to launch of STS-114/BI125.





**Flight Readiness Review for STS-114/BI125**



Pending satisfactory completion of normal operations flow, we certify the Booster Assembly hardware ready to support the launch of STS-114  
On July 13, 2005



Paul Guibonez  
Assistant Program Manager/DC  
SRB Element



David M. Martin  
Manager  
SRB Project Office

SRB-10



