PRCB ACTION S063515R1 1-1

RECOMMEND SPACE SHUTTLE SYSTEM YEAR END ROLLOVER (YERO) REQUIREMENT

January 25, 2007

MS/Darrell Stamper
Recommend YERO Requirement in NSTS 07700

- **Action**
  - Define program requirement for Year-End Rollover (YERO). Present recommendation to the PRCB.

- Recommend adding one requirement NSTS 07700 Vol. X, Book 1 to cover Shuttle flight hardware, MCC, and LPS.

- Add paragraph 3.2.2.1.26 – Year-End Rollover
  - The SSS, including the ground systems, shall support flights spanning the end of the calendar year. Use of automated means, manual means, and ground uplinks may be performed to satisfy this requirement. Specific operational periods when end of year transition should not occur are specified in NSTS 07700 Volume III.

- Recommend updating FDRD to include YERO operational periods as they are defined, e.g.:
  - Not inside T-11 hours
  - No ascent, entry, or docking
  - Allocate time to execute procedure (preferably while docked)
• PRCB CR S063553 has been submitted to baseline the requirement.

• Recommendation:
  • Close PRCB action CR S063515R1 1-1 based on this presentation and the submittal of CR S063553.
**SPACE SHUTTLE PROGRAM CHANGE REQUEST**

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<tr>
<th>PCIN</th>
<th>CR NO.</th>
<th>PAGE 1 OF 4</th>
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**INITIATED BY:** Daryl Peltier  
**OFFICE:** MS4  
**PHONE #:** 281-483-5362

**CHANGE TITLE:**
BASELINE SPACE SHUTTLE SYSTEM YEAR END ROLLOVER (YERO) REQUIREMENT IN NSTS 07700 VOL. X BOOK 1

**CHANGE PROPOSALS/REQUESTS IDENT. NO.**

**SSP DOCUMENTS AFFECTED**
NSTS 07700, Vol. X, Book 1

**DESCRIPTION OF CHANGE:**
(See attached pages 3 and 4.)

**REASON FOR CHANGE:**
This change baselines a Space Shuttle System requirement to support flights spanning the end of the calendar year.

SSP-MG/MANAGEMENT INTEGRATION USE ONLY

**OUTSIDE BOARD:**
**EVALUATION DUE:**
**BOARD DATE:**

SSP Form 4000A (Rev Oct 95)
### System Element(s) Affected:

- System Integration
- Orbiter/GFE
- EVA/Crew Equipment
- Space Shuttle Main Engine
- External Tank
- Solid Rocket Booster
- Reusable Solid Rocket Motor
- KSC Projects
- System Software
- Flight Support Equipment
- Shuttle Carrier Aircraft
- Integrated Avionics
- Payloads
- Operations
- Spacelab
- Other (Specify)
- KSC Projects
- System Software
- Flight Support Equipment
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- Reusable Solid Rocket Motor
- KSC Projects
- System Software
- Flight Support Equipment
- Shuttle Carrier Aircraft
- Integrated Avionics
- Payloads
- Operations
- Spacelab
- Other (Specify)

### Change Impact:

- Safety
- Performance
- Reliability
- Maintainability
- Spares
- GSE
- GFE
- Security
- Mod/Mission Kit
- Flight Manifest
- Payloads
- Certification/Recertification
- Required-Method-
- Test
- Analysis
- Similarity
- Flight Operations
- Simulators & Trainers
- Software
- OMRS
- MMDB
- Turnaround
- Facilities
- SAIL
- Other (Specify)

### Effectivity:

- non-flight specific

### Milestone:

- Delta LSFR
- SRB Stack
- ET/SRB Mate
- Orbiter Rollout/Mate
- VAB Rollout
- TRR/FRF
- FRR/Launch
- Ferry Flight

### Schedule Impact:

- no

### Weight Impact:

- no

### Safety and Mission Assurance:

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### Schedule Impact:

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### Impact Description:

Baselines SSP requirement to support flights spanning the end of the calendar year.

### Impact of Nonincorporation:

No SSP requirement would exist that specifically states that flights spanning the end of the calendar year shall be supported.

### Recommendation/Remarks:

Approve this SSP CR.

### Recommended Handling:

- Routine
- Expedite to

### Forwarding Authorization:

Original signed by Donald Totton

| Date | 1/23/2007 |
3.2.2.1.26  Year-End Rollover

The SSS, including the ground systems, shall support flights spanning the end of the calendar year. Use of automated means, manual means, or ground uplinks may be performed to satisfy this requirement. Specific operational periods when end of year transition should not occur are specified in NSTS 07700 Volume III.

Update: Table 4.1  VERIFICATION RESPONSIBILITY MATRIX
(See attached page 4)
### TABLE 4.1

**VERIFICATION RESPONSIBILITY MATRIX – Continued**

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PRCB CR S063553

BASELINE SPACE SHUTTLE SYSTEM
YEAR END ROLLOVER (YERO) REQUIREMENT
IN NSTS 07700 VOL. X BOOK 1

January 25, 2007

MS/Darrell Stamper
Baseline YERO Requirement in NSTS 07700

Purpose

• Baseline a program requirement for Year-End Rollover (YERO).

Recommend adding one requirement NSTS 07700 Vol. X, Book 1 to cover Shuttle flight hardware, MCC, and LPS.

Add paragraph 3.2.2.1.26 – Year-End Rollover

• The SSS, including the ground systems, shall support flights spanning the end of the calendar year. Use of automated means, manual means, and ground uplinks may be performed to satisfy this requirement. Specific operational periods when end of year transition should not occur are specified in NSTS 07700 Volume III.

Recommend updating FDRD to include YERO operational periods as they are defined, e.g.:

• Not inside T-11 hours
• No ascent, entry, or docking
• Allocate time to execute procedure (preferably while docked)
Baseline YERO Requirement in NSTS 07700

- Mandatory Evaluations:
  - Approve –
  - Approve with comment –
  - Disapprove –

- Comments to S063553:

- Recommendation:
  - Approve PRCB CR S063553 to add Year-End Rollover requirement in NSTS 07700 Volume X, Book 1.