

PROCESSING OPERATIONS CONTROL OMI PLANNING SHEET



Wad Number T6248-Q05-R02	SITE VAB HB2ETCO	Elem CD T	End Item ET-93	DATE: 09/16/2002 TIME: 09:17:21
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Title: EXTERNAL TANK (ET) PRE-MOVE INSPECTION	Sub Element/Zone
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Project Work Order No.	Hazard: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SFOC Safety WC 150 N/A USA SEP 16 '02	<input checked="" type="checkbox"/> Local Copy <input type="checkbox"/> Firing Room Copy
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Authorizing Document ET93-049(ADD)	Material & Equipment: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	MICR Req'd <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	OMRS: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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PERFORM THE FOLLOWING:

Pre-Ops Setups							
Task	Operation Number	Seq	Steps	Task	Operation Number	Seq	Steps

OPS Support							
Task	Operation Number	Seq	Steps	Task	Operation Number	Seq	Steps

Operating Instructions					
Task	Seq	Steps	Task	Seq	Steps
	010			090	
	020			100	
	030				
	040				
	050				
	060				
	070				
	080				

<table border="1"> <thead> <tr> <th colspan="4">Post Ops</th> </tr> <tr> <th>Task</th> <th>Operation Number</th> <th>Seq</th> <th>Steps</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Post Ops				Task	Operation Number	Seq	Steps					<table border="1"> <thead> <tr> <th colspan="2">Appendices</th> </tr> <tr> <th>Task</th> <th>Seq</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Appendices		Task	Seq				
Post Ops																					
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Appendices																					
Task	Seq																				

Subtask WAD's N/A

USA
VAB
032

USA
VAB
011

02

OMI TASK CLOSEOUT CHECKLIST

OMI No. <i>T6248 Q-05</i>	Run No. <i>2</i>	Task Control No. (TCN) <i>3037795</i>
Start Date <i>10-29-02</i>	Completion Date <i>10-31-02</i>	Closure Date <i>JAN -9 2003</i> 
		QC/Eng. Date
1. Deviation Index: Verify total number of deviations agree with index. Verify entry is correct into OMI.		<i>N/A</i> <i>N/A</i>
		 <i>OCT 31 '02</i> 
2. Constraints: Verify all constraints are cleared.		 <i>OCT 31 '02</i>
3. IPR's: Verify that all IPR's are closed or upgraded to problem reports or dispositioned as no constraint to OMI closure and incorporated in central IPR system and a copy of the central IPR sort attached.		 <i>OCT 31 '02</i>
4. Verify that material and equipment requirement list enclosed (if applicable).		<i>N/A</i> <i>N/A</i>
		<i>OCT 31 '02</i> 
5. OMI: Verify that all pages or verification sheets are completed, stamped, and dated in the lower left/right hand corners.		 <i>OCT 31 '02</i>
6. OMI: Verify that all miscellaneous documents/procedures have sequence number referenced and stamped; e.g., photos, sample results, etc.		<i>N/A</i> <i>N/A</i>
		<i>OCT 31 '02</i> 
7. Planned task/OMI satisfactorily completed. OPR: <i>J. F. R. T. S. Richards</i> <i>12-13-02</i>		<i>9 2003</i>

06-08-2000
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EXTERNAL TANK (ET) PRE-MOVE INSPECTION

Element/End Item: ET
Flow/Usage: NA
Facility: ETC02E, ETC02W, ETC04E, ETC04W
Design Center Concurrence:
Category: F
OPR: ETM
TTL ORG: QC

**This document does not contain
hazardous operations.**

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1.0 INFORMATION

1.1 Objective

To provide instructions for performing a visual inspection of external areas of the External Tank and surrounding interfaces, prior to move operations, that could cause damages or interferences.

Provide guidelines/instructions for inspection of the External Tank and interfaces.

Inspection/Verification shall be performed to include the following:

- Mechanical/Pneumatic interfaces
- Structural/mechanical interfaces
- Thermal protection system
- Nose cone area
- Test equipment, cables and hoses have been removed or secured.
- Protective covers installed as required.

1.2 Special Instructions All Operations

1. A visual Inspection shall be performed by Quality Control of the External Tank and surrounding platforms as access is available to the checkout cell levels. Should access not be available, visually inspect as best possible from the fixed stands.
2. A walk down inspection shall verify the ET is ready for move operations and obstructions or restrictions have been identified and reported.
3. Visual aids, including binoculars, may be used for inspections in areas that are not accessible from within eight feet from the ET.
4. All discrepancies found will be documented per SPI QA-001(3). Provide definitions as to part name, part number, station location and dimensions as required on the PR/DRs.

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1.3 Operations List

Operation		Shop/ Cntl Rm Console	OPR	Haz (Y/N)	Duration (Hrs)
No.	Title				
10	C/O CELL LV NINE INSP.	QC/ NONE	ETM	N	1.0
20	EAST C/O CELL LV EIGHT INSP.	QC/ NONE	ETM	N	1.0
30	WEST C/O CELL LV EIGHT INSP.	QC/ NONE	ETM	N	1.0
40	C/O CELL LV SEVEN INSP.	QC/ NONE	ETM	N	1.0
50	C/O CELL LV SIX INSP.	QC/ NONE	ETM	N	1.0
60	C/O CELL LEVEL FIVE INSP.	QC/ NONE	ETM	N	1.0
70	C/O CELL LEVEL FOUR INSP.	QC/ NONE	ETM	N	1.0
80	C/O CELL LEVEL THREE INSP.	QC/ NONE	ETM	N	1.0
90	C/O CELL LEVEL TWO INSP.	QC/ NONE	ETM	N	1.0
100	C/O CELL LEVEL ONE INSP.	QC/ NONE	ETM	N	1.0

2.0 SAFETY INFORMATION

2.4 Reference Safety Documentation

Number	Rev	Title
KHB 1710.2	LI	KSC Safety Practices Handbook
GSOP 5400	LI	Ground Safety Operating Procedure

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3.0 STAGING REQUIREMENTS

4.0 PLANNING REQUIREMENTS

OIR Required Yes [], No [X]

5.0 CONFIGURATION ACCOUNTING AND VERIFICATION

5.5 List of References

OPERATION 10

Reference No.	Rev.	Title
80901019008	LI	External Tank Vent Areas

OPERATION 40

Reference No.	Rev.	Title
80901019008	LI	External Tank Vent Areas

OPERATION 50

Reference No.	Rev.	Title
80901019008	LI	External Tank Vent Areas

OPERATION 90

Reference No.	Rev.	Title
80901019008	LI	External Tank Vent Areas

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OPERATION 10 C/O CELL LV NINE INSP.

Shop: QC
Cntrl Rm Console: NONE
OPR: ETM
Zone:
Hazard (Y/N): N
Duration (Hrs): 1.0

Checkout Cell Level Nine Inspection

NOTE

Operations involving CRIT 1, 1R and/or 1S items are contained in the following operation/steps.

10-1 **Perform** an inspection on this level and **verify** the ET is free of obstructions and interface connections that would restrict movement or cause damage. **Document** any discrepancies found per SPI QA-001.

29 OCT 2002 QW: 

10-2 **Inspect** ET Nose Cone area for loose and missing hardware.

29 OCT 2002 QW: 

10-3 **Inspect** ET Nose Cone area for damage.

29 OCT 2002 QW: 



29 OCT 2002

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10-4 Inspect TPS on LO2 cable tray for damage.

29 OCT 2002 Qw: (SPC 110)

10-5 Inspect GOX Vent Louvers (two) and verify they are free from obstructions and damage.

29 OCT 2002 Qw: (SPC 110)

10-6 Inspect Nose Cone Cable Tray Fairing vent areas for debris and obstructions (Ref: 80901019008 (LI) External Tank Vent Areas).

29 OCT 2002 Qw: (SPC 110)

10-7 Inspect GO2 pressline for damage.

29 OCT 2002 Qw: (SPC 110)

10-8 Verify red streamers listed in the red streamer log are accounted for.

T: N/A

TRO
10-30-02
ET
05

NP: (SPC 110)
10/30/02

SPC 246
22 10 110

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***** End of Checkout Cell Level Nine Inspection *****

***** End of Operation 10 *****

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OPERATION 20 EAST C/O CELL LV EIGHT INSP.

Shop: QC
Cntrl Rm Console: NONE
OPR: ETM
Zone:
Hazard (Y/N): N
Duration (Hrs): 1.0

NOTE

Do not perform this operation if the ET is located in the West Checkout cell.

Operation Not Performed: 

OCT
29 2002

East Checkout Cell Level Eight Inspection

20-1 **Perform** an inspection on this level and **verify** the ET is free of obstructions and interface connections that would restrict movement or cause damage. **Document** any discrepancies found per SPI QA-001.

Qw: N/A

20-2 **Inspect** accessible TPS areas on the ET, from the fixed stands for obvious damage.

Qw: N/A

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20-3 Verify red streamers listed in the red streamer log are accounted for.

16-30-02
11/13

T: N/A
NP: N/A

*** End of East Checkout Cell Level Eight Inspection ***

TR0

*** End of Operation 20 ***

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OPERATION 30 WEST C/O CELL LV EIGHT INSP.

Shop: QC
Cntrl Rm Console: NONE
OPR: ETM
Zone:
Hazard (Y/N): N
Duration (Hrs): 1.0

NOTE

Do not perform this operation if the ET is located in the East Checkout cell.

Operation Not Performed: NA

West Checkout Cell Level Eight Inspection

30-1 **Perform** an inspection on this level and **verify** the ET is free of obstructions and interface connections that would restrict movement or cause damage. **Document** any discrepancies found per SPI QA-001.

29 OCT 2002 Qw: 

30-2 **Inspect** accessible TPS areas on the ET, from the fixed stands for obvious damage.

29 OCT 2002 Qw: 

30-3 **Verify** red streamers listed in the red streamer log are accounted for.

TRO 
10-30-02
T: NA
NP: 
10-30-02

06-08-2000
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APPROVED

*** End of West Checkout Cell Level Eight Inspection ***

*** End of Operation 30 ***

06-08-2000
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APPROVED

OPERATION 40 C/O CELL LV SEVEN INSP.

Shop: QC
Cntrl Rm Console: NONE
OPR: ETM
Zone:
Hazard (Y/N): N
Duration (Hrs): 1.0

Checkout Cell Level Seven Inspection

40-1 Perform an inspection on this level and verify the ET is free of obstructions and interface connections that would restrict movement or cause damage. Document any discrepancies found per SPI QA-001.

29 OCT 2002 Qw: 

40-2 Inspect accessible areas of TPS on the ET, for damage.

29 OCT 2002 Qw: 

40-3 Verify LO2 Cable Tray assembly is free of obvious damage and loose hardware. Inspect areas under cable tray for loose hardware and foreign material.

29 OCT 2002 Qw: 

40-4 Verify GO2 Pressure Line is free of obvious damage.

29 OCT 2002 Qw: 

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40-5 Verify vent areas on LO2 Cable Tray (sliding joints) are clear of debris and obstructions (Ref: 80901019008 (LI) External Tank Vent Areas).

29 OCT 2002 QW: 

40-6 Verify red streamers listed in the red streamer log are accounted for.

10-30-02

T: N/A
*** End of Checkout Cell Level Seven Inspection ***
TRO NP: 
10-36-02

*** End of Operation 40 ***


10. 15. 130

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OPERATION 50 C/O CELL LV SIX INSP.

Shop: QC

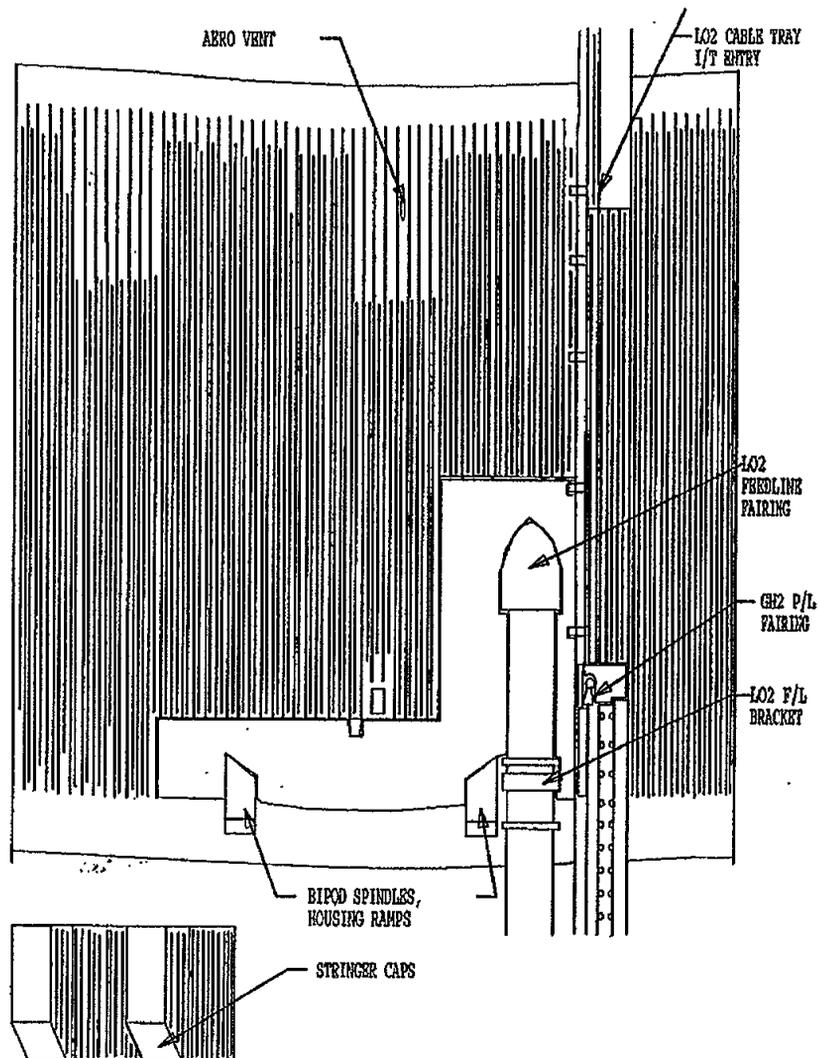
Cntrl Rm Console: NONE

OPR: ETM

Zone:

Hazard (Y/N): N

Duration (Hrs): 1.0



INTERTANK EXTERNAL

(FOR REFERENCE ONLY)

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Checkout Cell Level Six Inspection

NOTE

Operations involving CRIT 1, 1R and/or 1S items are contained in the following operation/steps.

50-1 Perform an inspection on this level and verify the ET is free of obstructions and interface connections that would restrict movement or cause damage. Document any discrepancies found per SPI QA-001

Qw: 

29 OCT 2002

50-2 Inspect LO2 Feedline and GO2 Pressure Line for damage and loose hardware

Qw: 

29 OCT 2002

50-3 Inspect LO2 Cable Tray drain hole in LO2 Cable Tray Support at the Intertank entry area and verify it is clear of debris and obstructions (Ref: 80901019008 (LI) External Tank Vent Areas).

Qw: 

29 OCT 2002

50-4 Inspect areas on LO2 Cable Tray (sliding joints) are clear of debris and obstructions (Ref: 80901019008 (LI) External Tank Vent Areas).

Qw: 

29 OCT 2002

50-5 Inspect Aero Vents (two) and verify they are clear of obvious debris and blockage (see figure - Intertank External)

Qw: 

29 OCT 2002



29 OCT 2002

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50-6 Inspect GUCP assy and verify the following:

- GO2 vent valve actuation line removed.
- Hydrogen vent valve actuation line removed.
- GH2 vent disconnect free of obvious damage.
- Free of obvious damage and loose or missing hardware.
- Caps secured, and Integrity sealed. ^{TR0} 
- Electrical Interface connections, including ground wire, to facility are disconnected. ^{16-36-02.}

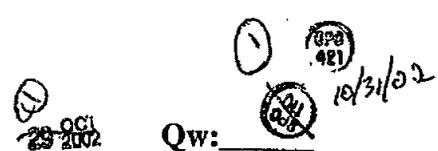
29 OCT 2002

Qw: 

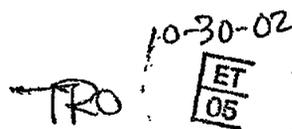
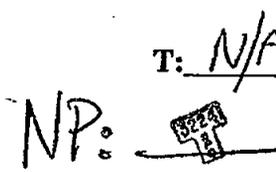
50-7 Inspect all accessible TPS areas on the following assemblies for obvious damage:

- LO2/Intertank splice
- LO2 Cable Tray Covers
- Pressline Brackets
- Ice/Frost Ramps
- LO2 Pal Ramps
- LO2 Feedline/GH2 Press line Fairing


DUI 059
29 OCT 2002


DUI 059
29 OCT 2002
Qw: 
10/31/02

50-8 Verify red streamers listed in the red streamer log are accounted for.


TR0
ET/05
10-30-02
T: N/A
NP: 
ET/05
OCT 31 2002

DUI 046
OCT 31 2002

06-08-2000
APPROVED

OMI T6248 Q05
APPROVED

*** End of Checkout Cell Level Six Inspection ***

*** End of Operation 50 ***

06-08-2000
APPROVED

OMI T6248 Q05
APPROVED

OPERATION 60 C/O CELL LEVEL FIVE INSP.

Shop: QC
Cntrl Rm Console: NONE
OPR: ETM
Zone:
Hazard (Y/N): N
Duration (Hrs): 1.0

NOTE

Do not perform this operation if External Tank is located in the West Checkout Cell.

Operation Not Performed: 

29 OCT
2002

Checkout Cell Level Five Inspection

60-1 **Perform** a visual inspection on this level and verify the ET is free of obstructions and interface connections that would restrict movement or cause damage. **Document** any discrepancies found per SPI QA-001.

Qw: N/A

60-2 **Inspect** accessible TPS areas on the ET, from the fixed stands for obvious damage.

Qw: N/A

60-3 **Verify** red streamers listed in the red streamer log are accounted for.

T: N/A

TRO  10-30-02 NP: N/A

06-08-2000
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OMI T6248 Q05
APPROVED

***** End of Checkout Cell Level Five Inspection *****

***** End of Operation 60 *****

06-08-2000
APPROVED

OMI T6248 Q05
APPROVED

OPERATION 70 C/O CELL LEVEL FOUR INSP.

Shop: QC
Cntrl Rm Console: NONE
OPR: ETM
Zone:
Hazard (Y/N): N
Duration (Hrs): 1.0

Checkout Cell Level Four Inspection

70-1 Perform an inspection on this level and verify the ET is free of obstructions and interface connections that would restrict movement or cause damage. Document any discrepancies found per SPI QA-001.

Qw:  10/31/02

70-2 Inspect accessible TPS areas on the ET, from the fixed stands for obvious damage.

Qw:  10/31/02

70-3 Verify red streamers listed in the red streamer log are accounted for.

TRQ 10-30-02

ET
05

T: N/A

NP:  10/31/02

*** End of Checkout Cell Level Four Inspection ***

*** End of Operation 70 ***

 10/31/02

06-08-2000
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OMI T6248 Q05
APPROVED

OPERATION 80 C/O CELL LEVEL THREE INSP.

Shop: QC
Cntrl Rm Console: NONE
OPR: ETM
Zone:
Hazard (Y/N): N
Duration (Hrs): 1.0

Checkout Cell Level Three Inspection

80-1 Perform an inspection on this level and verify the ET is free of obstructions and interface connections that would restrict movement or cause damage. Document any discrepancies found per SPI QA-001.

Qw: 
01 31 02

80-2 Inspect accessible TPS areas on the ET, from the fixed stands for obvious damage.

Qw: 
03 31 02

80-3 Verify red streamers listed in the red streamer log are accounted for.

T: N/A

*** End of Checkout Cell Level Three Inspection ***

NP: 

Oct 31 2002

*** End of Operation 80 ***

TRO



10-30-02



01 31 02

06-08-2000
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OMI T6248 Q05
APPROVED

OPERATION 90 C/O CELL LEVEL TWO INSP.

Shop: QC
Cntrl Rm Console: NONE
OPR: ETM
Zone:
Hazard (Y/N): N
Duration (Hrs): 1.0

Checkout Cell Level Two Inspection

NOTE

Operations involving CRIT 1, 1R and/or 1S items are contained in the following operation/steps.

90-1 Perform an inspection on this level and verify the ET is free of obstructions and interface connections that would restrict movement or cause damage. Document any discrepancies found per SPI QA-001.

QW: _____
OCT 31 '02



90-2 Inspect accessible TPS areas on the ET, for obvious damage.

QW: _____
OCT 31 '02



90-3 Inspect LH2 Cable Tray for obvious damage and loose hardware. Inspect areas under Cable Tray for loose hardware and foreign material.

QW: _____
OCT 31 '02



90-4 Inspect the GH2 Pressure Line, the LH2 Feedline, the LH2 (17 inch) Umbilical Disconnect, the LH2 Feedline and the LH2 Recirculation Line for visual damage. Verify no loose hardware and foreign material is present.

QW: _____
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90-5 Inspect the LO2 Umbilical Disconnect, the LO2 Feedline and the GO2 Pressure Line for visual damage. Verify no loose hardware and foreign material is present.



Qw: _____

081 31 '02

90-6 Inspect LH Vertical Strut to SRB Fairing drain hole for debris and obstructions (Ref: 80901019008 (LI) External Tank Vent Areas).

Qw: _____

081 31 '02

90-7 Inspect RH Vertical Strut to SRB Fairing drain hole for debris and obstructions (Ref: 80901019008 (LI) External Tank Vent Areas).



Qw: _____

081 31 '02

90-8 Inspect RH Vertical Strut Cable Tray drain hole for debris and obstructions (Ref: 80901019008 (LI) External Tank Vent Area).



Qw: _____

081 31 '02

90-9 Inspect Helium Inject Box drain hole for debris and obstructions (Ref: 80901019008 (LI) External Tank Vent Areas).



Qw: _____

081 31 '02

90-10 Inspect Cable Tray drain holes in the ET/ORB Electrical Umbilical Disconnect (-Y side) for debris and obstructions (Ref: 80901019008 (LI) External Tank Vent Areas).



Qw: _____

081 31 '02

081 31 '02

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90-11 **Inspect** Cable Tray drain holes in the ET/ORB Electrical Umbilical Disconnect (+Y side) for debris and obstructions (Ref: 80901019008 (LI) External Tank Vent Areas).


QW: _____
OCT 31 '02

90-12 **Inspect** vent areas on LH2 Cable Tray (sliding joints) for debris and obstructions (Ref: 80901019008 (LI) External Tank Vent Areas).


QW: _____
OCT 31 '02

90-13 **Inspect** the two LH2 Cable Tray drain holes for debris and obstructions at the LH2 Cable Tray Support area (Ref: 80901019008 (LI) External Tank Vent Areas).


QW: _____
OCT 31 '02

90-14 **Inspect** -Y side lower ET/ORB attach points and **verify** there is no loose or damaged hardware. **Check** the Cable Tray areas for damage and loose hardware.


QW: _____
OCT 31 '02

90-15 **Inspect** +Y side lower ET/ORB attach points and **verify** there is no loose or damaged hardware. **Check** the Cable Tray areas for damage and loose hardware.


QW: _____
OCT 31 '02

90-16 **Verify** red streamers listed in the red streamer log are accounted for.

T: N/A


10-30-02
TRO

NP: 
OCT 31 2002

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*** End of Checkout Cell Level Two Inspection ***

*** End of Operation 90 ***

06-08-2000
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APPROVED

OPERATION 100 C/O CELL LEVEL ONE INSP.

Shop: QC
Cntrl Rm Console: NONE
OPR: ETM
Zone:
Hazard (Y/N): N
Duration (Hrs): 1.0

Checkout Cell Level One Inspection

100-1 Perform an inspection on this level and **verify** the ET is free of obstructions and interface connections that would restrict movement or cause damage. **Document** any discrepancies found per SPI QA-001.

QW: 
31 '02

100-2 Inspect TPS areas, including man hole covers, and **verify** they are free of damage.

QW: 
31 '02

100-3 Verify red streamers listed in the red streamer log are accounted for.

10-30-02

*** End of Checkout Cell Level One Inspection ***

T: N/A
NP: 
31 '02

TR0
*** End of Operation 100 ***

PROBLEM REPORTING AND CORRECTIVE ACTION SYSTEM
PROBLEMS BY DETECTING

*
* NO DATA FOUND ON THE DATABASE FOR THE SELECTED PARAMETERS *
*

*
* END OF REPORT *
*

10-31-02



```

*****
* PROGRAM PRA120 SELECTION CRITERIA
*-----*
* RPT TYPE: IPR
* PR GROUP:
* WORK AREA CD:
* PR ELEM CD:
* STS NO:
* Starting RPT DT: 10/31/01
* Ending RPT DT: 10/31/02
* LRU or Non-LRU: B
* PRACA EFF CD:
* EICN:
* RPT STATUS: OP
* DETECTED DURING: T6248
*-----*
* Sorted by DETECTED DURING, PR ELEM CD, and EICN
*-----*
*****

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10-31-02





United Space Alliance

Pen and Ink Change Record

REVISION		EFFECTIVITY	
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Tracking Number	Page	Seq/Op - Step	Eng Approval
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Tracking Number	Page	Seq/Op - Step	Eng Approval
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