



# OMI TASK CLOSEOUT CHECKLIST

OMI No. <i>T6248 Q-5</i>	Run No. <i>1</i>	Task Control No. (TCN) <i>2849832-VAB</i>
Start Date <i>6 MAY 02</i>	Completion Date <i>6 MAY 02</i>	Closure Date <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">SPC 923</span> <i>MAY 13 02</i>
		QC/Eng.      Date
1. Deviation Index: Verify total number of deviations agree with index. Verify entry is correct into OMI. <span style="float: right;"><span style="border: 1px solid black; border-radius: 50%; padding: 2px;">SPC 927</span> <i>MAY 8 02</i></span>		<i>N/A</i> <i>N/A</i>
2. Constraints List: Verify all constraints are accepted by QC or waived by Engineering. Verify that constraints list is complete and closed. <span style="float: right;"><span style="border: 1px solid black; border-radius: 50%; padding: 2px;">SPC 927</span> <i>MAY 8 02</i></span>		<i>N/A</i> <i>N/A</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.		<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">SPC 927</span> <i>MAY 8 02</i>
4. Verify that material and equipment requirement list enclosed (if applicable). <span style="float: right;"><span style="border: 1px solid black; border-radius: 50%; padding: 2px;">SPC 927</span> <i>MAY 8 02</i></span>		<i>N/A</i> <i>N/A</i>
5. OMI: Verify that all pages or verification sheets are completed, stamped, and dated in the lower left/right hand corners.		<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">SPC 927</span> <i>MAY 8 02</i>
6. OMI: Verify that all miscellaneous documents/procedures have sequence number referenced and stamped; e.g., photos, sample results, etc. <span style="float: right;"><span style="border: 1px solid black; border-radius: 50%; padding: 2px;">SPC 927</span> <i>MAY 8 02</i></span>		<i>N/A</i> <i>N/A</i>
7. Planned task/OMI satisfactorily completed. OPR: <u><i>R Brewer</i></u> <i>5-10-02</i>		<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">SPC 923</span> <i>MAY 13 02</i>
8. LSS review prior to closure for CIL OMI's. MMC <u><i>N/A</i></u> Thiokol <u><i>N/A</i></u>		

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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  
Cntl 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.

  
Qw: \_\_\_\_\_  
MAY 6 '02

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

  
Qw: \_\_\_\_\_  
MAY 6 '02

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

  
Qw: \_\_\_\_\_  
MAY 6 '02



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

Qw: 

MAY 6 '02

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

Qw: 

MAY 6 '02

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

Qw: 

MAY 6 '02

10-7 Inspect GO2 pressline for damage.

Qw: 

MAY 6 '02

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

T: 

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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: N/A

**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: \_\_\_\_\_  
MAY 6 '02

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



Qw: \_\_\_\_\_  
MAY 7 '02

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

T: 2322  
61  
MAY 06 2002

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

\*\*\* 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: 

SEP 5 02

**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.

Qw: N/A

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

Qw: N/A

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

T: N/A



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

\*\*\* End of Operation 30 \*\*\*



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**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.

Qw:   
MAY 6 '02

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

Qw:   
MAY 6 '02

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.

Qw:   
MAY 8 '02

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

Qw:   
MAY 6 '02

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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 ).

Qw:   
MAY 6 02

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

T:   
MAY 06 2002

\*\*\* End of Checkout Cell Level Seven Inspection \*\*\*

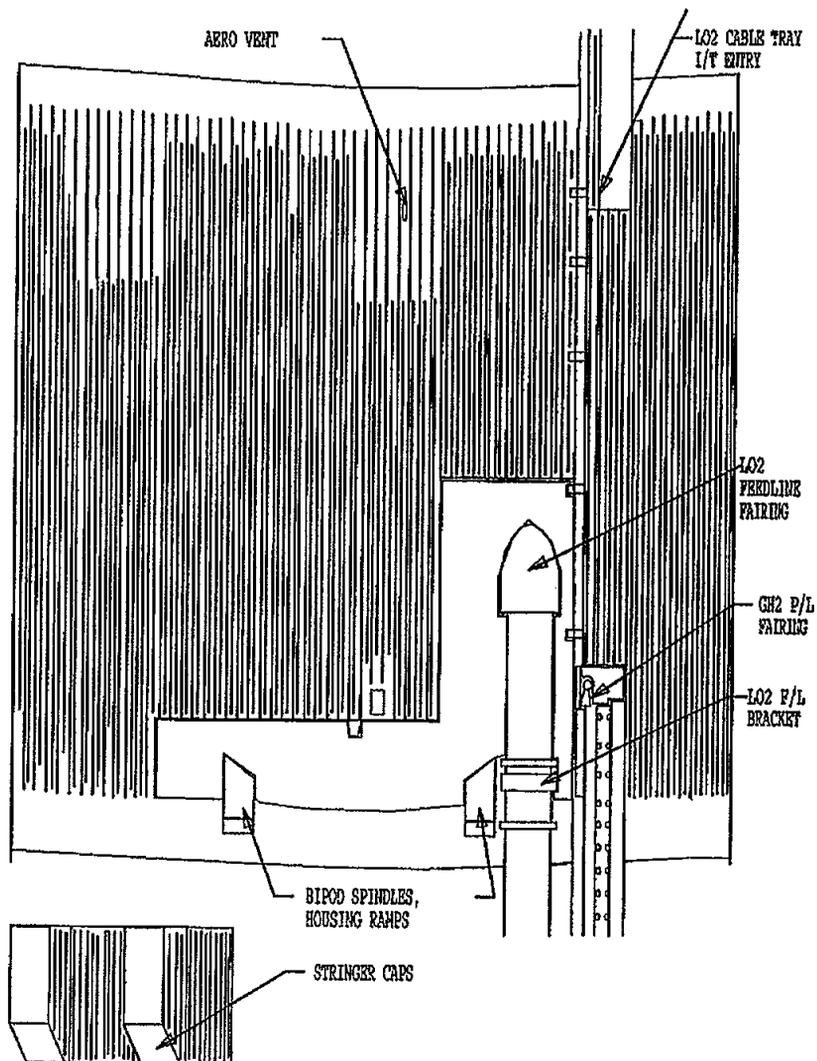
\*\*\* End of Operation 40 \*\*\*

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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)

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: \_\_\_\_\_  
MAY 6 02

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

  
Qw: \_\_\_\_\_  
MAY 5 02

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: \_\_\_\_\_  
MAY 5 02

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

  
Qw: \_\_\_\_\_  
MAY 5 02

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

  
Qw: \_\_\_\_\_

MAY 5 02



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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.
- Electrical Interface connections, including ground wire, to facility are **disconnected**.

Qw: \_\_\_\_\_



MAY 6 '02

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

Qw: \_\_\_\_\_



MAY 6 '02

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

T: \_\_\_\_\_



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

**\*\*\* End of Operation 50 \*\*\***

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### 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: N/A

#### 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.

6 MAY 2002 Qw: (01/024) ✓

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

6 MAY 2002 Qw: (11/025) ✓

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

T: 2322  
MAY 06 2002

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

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



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### 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.

6 MAY 2002 Qw:            

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

6 MAY 2002 Qw:            

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

T:              
MAY 06 2002

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

\*\*\* End of Operation 70 \*\*\*

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### 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.

6 MAY  
2002

OH  
048  
QW: \_\_\_\_\_ ✓

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

6 MAY  
2002

OH  
048  
QW: \_\_\_\_\_ ✓

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

2322  
18  
T: \_\_\_\_\_

MAY 06 2002

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

\*\*\* End of Operation 80 \*\*\*



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### 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.

6 MAY 2002 Qw:  ✓

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

6 MAY 2002 Qw:  ✓

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

6 MAY 2002 Qw:  ✓

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.

6 MAY 2002 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.

6 MAY 2002 QW:  ✓

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

6 MAY 2002 QW:  ✓

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

6 MAY 2002 QW:  ✓

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

6 MAY 2002 QW:  ✓

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

6 MAY 2002 QW:  ✓

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 ).

6 MAY 2002 QW:  ✓



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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 ).

6 MAY 2002 Qw:  ✓

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

6 MAY 2002 Qw:  ✓

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 ).

6 MAY 2002 Qw:  ✓

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.

6 MAY 2002 Qw:  ✓

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.

6 MAY 2002 Qw:  ✓

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

T:  ✓  
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\*\*\* End of Checkout Cell Level Two Inspection \*\*\*

\*\*\* End of Operation 90 \*\*\*



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**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.

6 MAY 2002 Qw: 

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

6 MAY 2002 Qw: 

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

T:   
MAY 06 2002

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

\*\*\* End of Operation 100 \*\*\*

```
*****  
* PROGRAM PRA120 SELECTION CRITERIA *  
*-----*  
* RPT TYPE: IPR *  
* PR GROUP: *  
* WORK AREA CD: *  
* PR ELEM CD: *  
* STS NO: 107 *  
* Starting RPT DT: 05/09/01 *  
* Ending RPT DT: 05/09/02 *  
* LRU or Non-LRU: B *  
* PRACA EFF CD: *  
* EICN: T6248 905 *  
* RPT STATUS: B *  
*-----*  
* Sorted by DETECTED DURING, PR ELEM CD, and EICN *  
*****
```



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

\*\*\*\*\*  
\*  
\* END OF REPORT \*  
\*