

PROCESSING OPERATIONS CONTROL OMI PLANNING SHEET



Wad Number V6028.001-A03-R02	SITE DFRF	Elem CD V	End Item 105 FLT: 016	DATE: 04/04/2001 TIME: 10:58:02
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Title: POST FLT ORB REUSABLE SURFACE INSULATION RUNWAY ENGINEERING WALKDOWN	Sub Element/Zone 30 100
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Project Work Order No.	Hazard: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SFOC Safety N/A	<input checked="" type="checkbox"/> Local Copy <input type="checkbox"/> Firing Room Copy
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Authorizing Document ORB516	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 checked="" type="checkbox"/> Yes <input 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	CVAS	Task	Operation Number	Seq	Steps
				USA VM 057	USA VM 040	USA VM 068	USA VM 044	

Operating Instructions					
Task	Seq	Steps	Task	Seq	Steps
	010				
	020				

Post Ops				Appendices	
Task	Operation Number	Seq	Steps	Task	Seq
				N/A	

Subtask WAD's N/A

Planner S. MOORE	Ext 6516	QC Closure SPC 166	Date 5-6-01 5-24-01	Page 165
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SIG. ADDED
 USA VM 035
 QDA 72
 WALKDOWN FOR C10 SADR
 L10
 L1A
 W5H

OMI TASK CLOSEOUT CHECKLIST

OMI No. <i>V6028.001 A03</i>	Run No. <i>2</i>	Task Control No. (TCN) <i>2838636</i>
Start Date <i>5-6-01</i>	Completion Date <i>5-6-01</i>	Closure Date SPC 155 <i>5/24/01</i> SPC 155 <i>5-6-01</i> ①
		QC/Eng. Date
1. Deviation Index: Verify total number of deviations agree with index. Verify entry is correct into OMI.		SPC 155 <i>5/6/01</i>
2. Constraints List: Verify all constraints are accepted by QC or waived by Engineering. Verify that constraints list is complete and closed.		<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.		<i>N/A</i>
4. Verify that material and equipment requirement list enclosed (if applicable).		SPC 155 <i>5/6/01</i>
5. OMI: Verify that all pages or verification sheets are completed, stamped, and dated in the lower left/right hand corners.		SPC 155 <i>5/6/01</i>
6. OMI: Verify that all miscellaneous documents/procedures have sequence number referenced and stamped; e.g., photos, sample results, etc.		SPC 155 <i>5/6/01</i>
7. Planned task/OMI satisfactorily completed. OPR: <i>[Signature]</i> <i>REL 5-3-01</i>		SPC 155 <i>5-3-01</i>
8. LSS review prior to closure for CIL OMI's. MMC <i>[Signature]</i> Thiokol <i>[Signature]</i>		<i>5-6-01</i> <i>5-24-01</i> SPC 155

OMI Change for closure
 Si quality labeled
 5/24/01
 SPC 155

APPROVED

DATE: 10-01-1998 TIME: 1258

OMI V6028.001

REVISION: A

CHANGE: 3

POST FLT ORB REUSABLE SURFACE INSULATION
RUNWAY ENGINEERING WALKDOWN

ELEMENT/END ITEM EFFECTIVITY: 102, 103, 104, 105

FACILITY EFFECTIVITY: AAFB, BANJUL, BENGUE, DFRF, ELS, HAFB, MORON, SLF, WSSH, ZARAG

INTERVAL/USAGE EFFECTIVITY: NA

PROCESS VARIABLE: NA

REVISION EFFECTIVITY: 105/011 And Subs; 104/016 And Subs; 102/020 And Subs; 103/022 And Subs

TTL ORG: SE

OPR: TPS

NON-HAZARDOUS

KENNEDY SPACE CENTER - SPACE TRANSPORTATION SYSTEM PROGRAM

APPROVED

S-001



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NON-HAZARDOUS

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Operation 10 TASK TEAM READINESS 10-1

Operation 20 TPS ENG LANDING QUICK LOOK 20-1

NON-HAZARDOUS
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1.0 INFORMATION

1.1 Objective

To perform post-landing survey/inspection of Orbiter Thermal Protection Subsystem (TPS) to determine if components exhibit obvious damage that would require reservicing, repair, redesign or replacement.

1.2 Special Instructions

All Operations

1. Suspect nonconformances shall be augmented by various other nondestructive methods (shims, etc.).
2. Unless otherwise specified, inspection(s) shall be accomplished visually.
3. Handling or movement of components shall be held to a minimum.
4. Inspection steps may be performed out of sequence and/or concurrently in different areas.
5. Special precautions in handling RSI:
 - RSI ceramic tiles are very fragile and easily damaged. The highly porous, low density ceramic fiber core is exceptionally low in tensile and compression strengths. Glaze on five faces of the tile is a thin brittle glass over a core offering very low resistance to crushing stresses. Slight finger pressure can often fracture the glaze making repair or replacement necessary. Exterior glass fabric or flexible insulation blankets, gap fillers and thermal barriers are easily snagged, abraded and damaged. RSI replacement and repair is difficult, expensive and time consuming.
 - Tile glaze is designed to seal outer surface of tile and provide critical optical properties. Properties may be partially lost or destroyed by fingerprints or contamination on the glazed surface. Contamination on nonglazed faying surface may significantly affect attachment-bonding characteristics.

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6. Mandatory precautions in handling RSI:

- Wear clean white low-lint gloves when handling tile or tile subassemblies and subassembly components (strain isolator pads and filler bars), flexible insulation blankets and blanket components, thermal barriers and/or gap fillers.
- Handle delicate tiles and tile subassemblies with extreme care to avoid fracturing the thin brittle glass surface glaze by squeezing, bumping or dropping.
- Use extra caution to avoid bumping RSI when positioning work stands in RSI work or storage areas.
- Comply with tethering/taping instructions.

7. During inspection, adequate lighting shall be obtained if not available in inspection area.

1.3 Operations List

Operation		Shop/ Cntl Rm Console	OPR	Haz (Y/N)	Duration (Hrs)
No.	Title				
0010	TASK TEAM READINESS	TPS/ NONE	TPS	N	0.300
0020	TPS ENG LANDING QUICK LOOK	TPS/ NONE	TPS	N	2.000

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2.0 SAFETY INFORMATION

2.1 Hazards - NA

2.2 Safety Requirements - NA

2.3 Personal Protective Equipment Required - NA

2.4 Reference Safety Documentation

Number	Rev	Title
KHB 1710.2	LI	KSC Safety Practices Handbook
GSOP-5400	LI	Gmd. Saf. Operating Proc.

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3.0 STAGING REQUIREMENTS

3.1 Referenced Engineering Documentation

3.1.1 Drawings - NA

3.1.2 Documents - NA

3.2 Parts, Materials, Equipment, and Special Tools

3.2.1 Flight Parts - NA

3.2.2 Flight Materials - NA

3.2.3 Non-Flight Parts - NA

3.2.4 Non-Flight Materials - NA

3.2.5 Shop Support Materials - NA

3.2.6 Equipment - NA

3.2.7 Tools and Test Equipment - NA

3.2.8 Personal Protective Equipment - NA

3.2.9 Vendor Supplied Parts - NA

3.2.10 Vendor Supplied Materials - NA

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4.0 PLANNING REQUIREMENTS

No OIR required.

4.1 Critical Skill Requirements - NA

4.2 Operational Configuration Requirements

Reserved for future use.

4.3 LPS Requirements - NA

4.4 Support Services, Commodities, and Equipment

4.4.9 Vehicles, Ground Support Equipment, and Special Equipment

- (1) A72-0812, Access Stand, 11 to 29 ft
- (2) Hi-Ranger, 50 ft

4.4.13 Other Support (KSC)

- Nondedicated support shall be requested via STS/Payload KSC Integrated Control Schedule.

4.5 Supporting Subtasks - NA

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5.0 CONFIGURATION ACCOUNTING AND VERIFICATION

5.1 Specific OMRS Requirements Satisfied by this TOP

OMRS No. / (CIL No.)	Nomenclature/Effectivity	Step (CAP)
V09AJ0.097	POST LANDING RUNWAY QUICK LOOK INSP	0020-0001
(3)	L03 V02F14-90 V03F16-90 V04F14-90 V05F4-90	

5.2 General OMRS Requirements - NA

5.3 Configuration Verification Recording - NA

5.4 Scan Activity - NA

5.5 List of References

Dwg/Doc No.	Rev	Title
JSC 11189	LI	Space Shuttle Control Nomen
ML0601-0002	LI	RSI Accept Criteria, Oper Veh
NSTS 08242	LI	Limit For Mat/Equip Near Orb
V070-190001	LI	Wing TPS Installation
V070-190002	LI	Wing/Fuslg CIs/Out TPS Instl
V070-198000	LI	IB Elvn Aerotherm seal Instl
V070-198001	LI	OB Elvn Aerotherm Seal Instl
V070-199200	LI	RCC Wing Leading Edge Instl
V070-199900	LI	Wing Lead Edge Fitting Instl
V070-290101	LI	Vert Stabilizer TPS Instl
V070-290102	LI	Vert Stab to Fus TPS Instl
V070-359001	LI	OMS Pod to Aft Fuselge Instl
V070-391001	LI	Fwd Fuselage RSI Instl
V070-391002	LI	RCS Module Fwd Fuselage Instl
V070-391028	LI	Tile Instl Fwd Fuselage/FRCS
V070-394001	LI	Mid Fuselage RSI Instl
V070-394002	LI	Mid/Fwd Fuselage TPS CIs/Out
V070-394003	LI	Mid/Aft Fuselage TPS CIs/Out

NON-HAZARDOUS

0-8

APPROVED

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(8)
(6)

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Dwg/Doc No.	Rev	Title
V070-395001	LI	Aft Fuselage TPS Instl
V070-395002	LI	Body Flap TPS Instl
V070-395900	LI	Base Heat Shield TPS Instl
V070-396003	LI	OMS/RCS Mate TPS Instl
V070-397001	LI	RSI Instl Fwd PLBD
V070-397501	LI	RSI Instl Aft PLBD
V070-398500	LI	Seal Instl PLBD
V070-399100	LI	B/F Aerothermal seals Instl
V070-399200	LI	RCC Nose Cap Instl

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0-9
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REVISION: A

CHANGE: 3

OPERATION 10 TASK TEAM READINESS

Operation ID:

Shop: TPS

Cntl Rm Console: NONE

OPR: TPS

Zone: 100

NON-HAZARDOUS
10-1
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S-6-01

(8-
54)

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REVISION: A

CHANGE: 3

Call To Stations

10-1
[1-1]

Verify constraints status.

TTL *(Signature)* 5.6.01

10-2
[1-2]

Verify following personnel on station and ready to proceed with inspection.

TTL *(Signature)* 5.6.01

Table 1. Required Personnel	
NASA JSC TPS Eng (optional)	1
NASA KSC TPS Eng	1
SFOC TPS Eng	1
LSS TPS Eng	1

*** End of Operation ***

NON-HAZARDOUS
10-2
APPROVED

5-6-01


APPROVED

DATE: 10-01-1998 TIME: 1258

OMI V6028.001

REVISION: A

CHANGE: 3

OPERATION 20 TPS ENG LANDING QUICK LOOK

Operation ID:

Shop: TPS

Cntl Rm Console: NONE

OPR: TPS

Zone: 100

**NON-HAZARDOUS
20-1
APPROVED**

Dev No. 20/01 DILS No. 86656(S) Page 1 of 4

TOP/WAD No. V6028.001	REV/CHG/VER A03	<input checked="" type="checkbox"/> In Family <input type="checkbox"/> Out of Family	Cause Code Org (B,D,E,G,H,L,N,O,P,Q,S,T,V) N	Cause Code Reason 10-Tech Chg 20-Proc Chg 30-Auth Error 40-Rewrite 20
First Use <input type="checkbox"/> SRB BI- <input type="checkbox"/> ET <input type="checkbox"/> GSE <input type="checkbox"/> STS-	Effectivity: <input checked="" type="checkbox"/> ORB 103 /FLT 29 <input type="checkbox"/> FRCS/POD /FLT <input type="checkbox"/> SSME /FLT			
Affected: <input type="checkbox"/> OMRS/ACOMC/OMP <input type="checkbox"/> Design Req'ts <input type="checkbox"/> Haz Step(s) <input type="checkbox"/> PPE <input type="checkbox"/> Internal Review Req.				
Contractor OPR <i>Patti Celli</i> <u>3/22/01</u> TH 18	Contractor Test Conductor		Gov't OPR <i>Bill Gill</i> <u>3/22/01</u>	
Contractor Test Project Engineer	Other		Gov't Project Engineer	
Contractor Safety	Other		Gov't Test Director or Contractor Chief TC	

Page Number: 20-2 NOTE

Change Note FROM

NOTE

Post-landing runway quicklook inspection is to be performed after scheduled landing immediately following vehicle hazard and safety inspection. For unscheduled landing, perform as soon as practical.

Engineering shall assess overall vehicle TPS post-flight condition while placing special emphasis on potential impacts to TPS turnaround processing.

Team shall consist of NASA JSC/KSC, SFOC and LSS TPS Engineering.

Grossly anomalous conditions must be identified for PR initiation and addressed as soon as practical to support ferry flight and other post-flight turnaround activities.

5-16-01

991
008

Originator (print) PATTI CELLI	SPDMS ID ZQ1132	Phone 1-6935	Organization USA	Date 03/22/2001	<input checked="" type="checkbox"/> Perm <input type="checkbox"/> Tamn <input type="checkbox"/> Temp-Recycle
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TOP/WAD Deviation

Dev No. 20/01 DILS No. 86636 (S) Page 2 of 4

TOP/WAD No. V6028.001	REV/CHG/VER A	<input checked="" type="checkbox"/> In Family <input type="checkbox"/> Out of Family	Cause Code Org (B,D,E,G,H,L,N,O,P,Q,S,T,V) N	Cause Code Reason 10-Tech Chg 20-Proc Chg 30-Auth Error 40-Rewrite 20
First Use <input type="checkbox"/> SRB BI- <input type="checkbox"/> ET <input type="checkbox"/> GSE <input type="checkbox"/> STS-	Effectivity: <input checked="" type="checkbox"/> ORB 103 /FLT 29 <input type="checkbox"/> FRCS/POD /FLT <input type="checkbox"/> SSME /FLT			
Affected: <input type="checkbox"/> OMRS/ACOMC/OMP <input type="checkbox"/> Design Req'ts <input type="checkbox"/> Haz Step(s) <input type="checkbox"/> PPE		<input type="checkbox"/> Internal Review Req.		
Contractor OPR <i>3/22/01</i> TH 18	Contractor Test Conductor	Gov't OPR <i>Paul Gill</i>	3-22-01	
Contractor Test Project Engineer	Other	Gov't Project Engineer		
Contractor Safety	Other	Gov't Test Director or Contractor Chief TC		

NOTE

Post-landing runway quicklook inspection is to be performed after scheduled landing immediately following vehicle hazard and safety inspection. For unscheduled landing, perform as soon as practical.

Engineering shall assess overall vehicle TPS post-flight condition while placing special emphasis on potential impacts to TPS turnaround processing.

Team shall consist of NASA KSC, SFOC and LSS TPS Engineering.

Grossly anomalous conditions must be identified for PR initiation and addressed as soon as practical to support ferry flight and other post-flight turnaround activities.

5-6-01

Originator (print) PATTI CELLI	SPDMS ID ZQ1132	Phone 1-6935	Organization USA	Date 03/22/2001	<input checked="" type="checkbox"/> Perm <input type="checkbox"/> Temp <input type="checkbox"/> Temp-Recycle
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TOP/WAD Deviation

Dev No. 20/01 DILS No. 86636(9) Page 3 of 4

TOP/WAD No. V6028.001	REV/CHG/VER A	<input checked="" type="checkbox"/> In Family <input type="checkbox"/> Out of Family	Cause Code Org (B,D,E,G,H,L,N,O,P,Q,S,T,V) N	Cause Code Reason 10-Tech Chg 20-Proc Chg 30-Auth Error 40-Rewrite 20
First Use <input type="checkbox"/> SRB BI- <input type="checkbox"/> ET <input type="checkbox"/> GSE <input type="checkbox"/> STS-	Effectivity: <input checked="" type="checkbox"/> ORB 103 /FLT 29 <input type="checkbox"/> FRCS/POD /FLT <input type="checkbox"/> SSME /FLT			
Affected: <input type="checkbox"/> OMRS/ACOMC/OMP <input type="checkbox"/> Design Req'ts <input type="checkbox"/> Haz Step(s) <input type="checkbox"/> PPE <input type="checkbox"/> Internal Review Req.				
Contractor OPR <i>TH/TS</i> <u>3/22/01</u>	Contractor Test Conductor		Gov't OPR <i>Bill Gill</i> <u>3-22-01</u>	
Contractor Test Project Engineer	Other		Gov't Project Engineer	
Contractor Safety	Other		Gov't Test Director or Contractor Chief TC	

Page Number: 20-2 Step 20-1

Change Step FROM

20-1 TPS Engineering Team perform post-landing Orbiter walkdown visual inspection for gross TPS damage/anomalies. Sign upon completion of inspection.

OMRSD V09AJ0.097

(NASA JSC _____ Date _____)

(NASA KSC SE ~~*for Bill Gill*~~ _____ Date ~~3-20-01~~ *for Bill 3-22-01*)

(SFOC SE _____ Date _____)

(LSS TPS _____ Date _____)

5-level

Originator (print) PATTI CELLI	SPDMS ID ZQ1132	Phone 1-6935	Organization USA	Date 03/22/2001	<input checked="" type="checkbox"/> Perm <input type="checkbox"/> Term <input type="checkbox"/> Temp-Recycle
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TOP/WAD Deviation

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TOP/WAD No. V6028.001	REV/CHG/VER A	<input checked="" type="checkbox"/> In Family <input type="checkbox"/> Out of Family	Cause Code Org (B,D,E,G,H,L,N,O,P,Q,S,T,V) N	Cause Code Reason 10-Tech Chg 20-Proc Chg 30-Auth Error 40-Rewrite 20
First Use <input type="checkbox"/> SRB Bl- <input type="checkbox"/> ET <input type="checkbox"/> GSE <input type="checkbox"/> STS-	Effectivity: <input checked="" type="checkbox"/> ORB 103 /FLT 29 <input type="checkbox"/> FRCS/POD /FLT <input type="checkbox"/> SSME /FLT			
Affected: <input type="checkbox"/> OMRS/ACOMC/OMP <input type="checkbox"/> Design Req'ts <input type="checkbox"/> Haz Step(s) <input type="checkbox"/> PPE	<input type="checkbox"/> Internal Review Req.			
Contractor OPR <i>Patti Celli</i> <u>3/22/01</u>	Contractor Test Conductor	Gov't OPR <i>Bill Gill</i> <u>3-22-01</u>		
Contractor Test Project Engineer	Other	Gov't Project Engineer		
Contractor Safety	Other	Gov't Test Director or Contractor Chief TC		

To

TPS Engineering Team perform post-landing Orbiter walkdown visual inspection for gross TPS damage/anomalies. Sign upon completion of inspection.

OMRSD V09AJ0.097

* (NASA KSC SE Brad Poffenberger ¹⁰⁰ ₁₂₅₅ 5/24/01 ^{DATE LAUNCH}
~~NOT PRESENT FOR~~ Date _____
 * (SFOC SE DR ^(NOT PRESENT) 5-3-01 ^{BEHIND}) Date _____
 (LSS TPS K.A. Hinkle 5-1-01) Date _____

* SIGNRD AS SOON PRACTICAL

Reason: JSC NASA IS NOT PRESENT DURING LAUNCH AT KSC

Originator (print) PATTI CELLI	SPDMS ID ZQ1132	Phone 1-6935	Organization USA	Date 03/22/2001	<input checked="" type="checkbox"/> Perm <input type="checkbox"/> Term <input type="checkbox"/> Temp-Recycle
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1603 5-24-01
 DATE CHANGED
 5/24/01 ENTERED FOR SIG.

5-24-01
 891
 891
 891

APPROVED

DATE: 10-01-1998 TIME: 1258

OMI V6028.001

REVISION: A

CHANGE: 3

TPS Engineering Team Post-Landing Runway Quicklook Inspection

NOTE

Post-landing runway quicklook inspection is to be performed after scheduled landing immediately following vehicle hazard and safety inspection. For unscheduled landing, perform as soon as practical.

- Engineering shall assess overall vehicle TPS post-flight condition while placing special emphasis on potential impacts to TPS turnaround processing.
- Team shall consist of NASA JSC/KSC, SFOC and LSS TPS Engineering.
- Grossly anomalous conditions must be identified for PR initiation and addressed as soon as practical to support ferry flight and other post-flight turnaround activities.

20-1
[1-1]

TPS Engineering Team perform post-landing Orbiter walkdown visual inspection for gross TPS damage/anomalies. Sign upon completion of inspection.

WC
032
USA
APR 4 '01

20-1
DEV
No. 01
5-6-01
SPEC 166

OMRSD V09AJ0.097

(NASA JSC _____ Date _____)

(NASA KSC SE _____ Date _____)

(SFOC SE _____ Date _____)

(LSS TPS _____ Date _____)

NON-HAZARDOUS

20-2

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SPEC 166

5-6-01

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DATE: 10-01-1998 TIME: 1258

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20-2
[1-2]

Engineering and debris team take samples as deemed necessary. Document all samples in Table 2 on page 20-4 (Sample Log). Before any samples are taken, obtain the following concurrence:

(SFOC-TPS Eng _____ Date _____)

(NASA TPS Eng _____ Date _____)

(LSS TPS Eng _____ Date _____)

(Not Performed)

[Signature]
BEWED
5-6-01

NON-HAZARDOUS
20-3
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5-6-01
[Signature]

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DATE: 10-01-1998 TIME: 1258

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Table 2. Sample Log

Item	Part Number	Location	Remarks TPS Eng Team Signature	N/P
1				NP
2				NP
3				NP
4				NP
5				NP
6				NP
7				NP
8				NP
9				NP
10				NP

W/R

THY R. B. BROWN

5-6-01

NON-HAZARDOUS
20-4
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5-6-01



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NOTE

Do not perform Step 20-3 if no debris samples were taken in the previous step.

20-3
[2-1]

Route samples with P/N, vehicle location and other pertinent data to NASA Debris Team Leader for analysis.

SFOC TPS Eng _____ Date _____

Not Performed

[Signature]
BEVERND
5-6-01

*** End of Operation ***

5-6-01
981
045

NON-HAZARDOUS
20-5
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