NCR DOCUMENT

DOCUMENT INITIATION DATA

N 062529

ASSY/DETAIL PART NUMBER (a)	TRACEABILITY NUMBER (b)	ORDER TYPE/NUMBER (c)
80901010000-120	NOTED	1027M

ASSY/DETAIL PART NAME (d)	PROJECT (e)	EFFECTIVITY (f)	CTRL PT (g)	GFP (h)
ET COMPLETE - DD250	(ET) / COMM	NOTED	1027	Y (N)

SUPPLIER CODE (i)	SUPPLIER NAME (j)	ORIGINATION LOCATION (k)	TAIR BOOK (BK/PG) (l)
P001612	[redacted]		

INITIAL REPORT (m)	REFERENCE DOCUMENT(S) (n)

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
1	80901010000-120	NOTED	2	2	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
ET COMPLETE				I (D) / C

DEFECT CODE 12	HDWR CODE 13	CC 14	EE BADGE 15	FAILURE 16	CRIT 17	DEPT FND 18	DEPT LBL 19	SCC 20	WELD CODE 21	WELD GRD 22
		SI		Y (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/18/02	T / V / S		☐ VISUAL

VA [redacted]	BADGE [redacted]	DATE 30	MATERIAL THICKNESS 26		DEFECT LOC 27	☐ X-RAY
		11-18-02	ACTUAL	DRAWING	ISL / OSL	

RELIABILITY ASSURANCE	BADGE	DATE 31	REP ATTEMPT 28	☐ PENETRANT
			ISL / OSL	

DISCREPANCY DESCRIPTION 32	REPAIR 33	DEFECT LOCATION 34	DEFECT LENGTH 35

THIS ITEM IS WRITTEN TO DOCUMENT MULTI-EFFECTIVITY ACCOUNTABILITY.

CAUSE AND CORRECTIVE ACTION DATA

CAUSE 36

VENDOR ERROR

CORRECTIVE ACTION 37

SCAR-02-078

CAC 38	[illegible]	BADGE	DATE 39	[illegible]	BADGE	DATE 40
S C	[redacted]		18NOV02	[redacted]	[redacted]	11/26/02

DISPOSITION DATA

☐ MRB 41 DISPOSITION 42

MRB DISPOSITION OF THIS ITEM IS NOT REQUIRED. REFER TO SUBSEQUENT ITEMS FOR DEFECT DISPOSITION.

REQUEST AUTHORIZATION FOR MULTI-EFFECTIVITY FROM MANAGER RELIABILITY ASSURANCE [redacted] 11/18/02

CONCUR: [redacted] 11/19/02

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	MSS 11-19-2	

VISUAL INSPECTION 46		PROD OPS X-RAY 47	
ACCEPT	REJECT	ACCEPT	REJECT

WELDER 48	PA X-RAY 49	
	ACCEPT	REJECT

WELD WIRE ACCEPTANCE 50	PENETRANT 51	
	ACCEPT	REJECT

REPAIR PER SRI W-001 52	WELD WIRE LAB TICKET 53
☐ I ☐ II ☐ III	
PCN 54	WELD WIRE LOT NUMBER 55

MR CD 56	LAB / LICALL 57	SRI NUMBER 58	NUMBER OF ATTACHMENTS 59	NUMBER OF NCSDs 60
3			1 2 3 4 5 6 7 8 9 10 (0)	1 2 3 4 5 6 7 8 9 10 1

DOCUMENT CLOSURE DATA

DISP CODE n	NUMBER OF ITEMS o	TRANSFER TO DOCUMENT q	[illegible] ACCEPTANCE	BADGE	DATE r
N (M) F	1 2 3 4 5 6 7 8 9 10		[redacted]	[redacted]	11-19-02

QC SURFACE CLOSURE ACCEPTANCE	DATE s	[illegible]	DATE t
[redacted]	11-20-02	[redacted] ENGR/MRB	11/21/02

MAF/MMA 37-033 (11/95)

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06-16-2003 07:40

NCSD SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062529	1	2

4

Blocks "b" and "f" Cont'd:

S/N	EFFECTIVITY
000000000086	ET-93
000000000087	ET-94

Block 3 Cont'd:

S/N	EFFECTIVITY
000000000086	ET-93
000000000087	ET-94

Reliability Assurance [redacted] 11/18/02

NCD

MAF/MMA 37-028 (12/93)

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NCD ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N06252 9	2	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
2	8091104 1234-009	NOTED	2	2	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
BRACKET, ISOLATOR ASSEMBLY				I (D) C

DEFECT CODE 12	HDWR CODE 13	CC 14	EE BADGE 15	FAILURE 16	CRIT 17	DEPT FND 18	DEPT LBL 19	SCC 20	WELD CODE 21	WELD GRD 22
BKIDCODRC	SN	SI		Y I (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/18/02	T / V / S		☐ VISUAL
VA [redacted]	[redacted]	DATE 30: 11-18-2	MATERIAL THICKNESS 26: ACTUAL / DRAWING	DEFECT LOC 27: ISL / OSL	☐ X-RAY
RELIABILITY ASSURANCE	BADGE	DATE 31		REP ATTEMPT 28: ISL / OSL	☐ PENETRANT

DISCREPANCY DESCRIPTION 32	REPAIR 33	DEFECT LOCATION 34	DEFECT LENGTH 35

SUSPECT MS20605 R4W4 BLIND RIVETS DO NOT MEET STP2002 GAPPING OR STP2003 FLUSHNESS REQUIREMENTS AS REQUIRED BY ENGINEERING DRAWING.

CAUSE AND CORRECTIVE ACTION DATA

CAUSE 36: VENDOR ERROR

CORRECTIVE ACTION 37: SCAR-02-078

CAC 38	[redacted]	BADGE	DATE 39	[redacted]	BADGE	DATE 40
SC	[redacted]	[redacted]	18 NOV 02	[redacted]	[redacted]	11/26/02

DISPOSITION DATA

☒ MRB 41 | DISPOSITION 42

BLOCK 3 CONT'D:

S/N	EFFECTIVITY
00000000374	ET-93
00000000375	ET-94

RELIABILITY ASSURANCE [redacted] 11/18/02

BLOCK 42 CONT'D.

SUBMIT TO ENG FOR EVALUATION.

[redacted] 11-18-2

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	MSS [redacted] 11-18-2	

VISUAL INSPECTION 46		PROD OPS X-RAY 47	
ACCEPT	REJECT	ACCEPT	REJECT

WELDER 48	PA X-RAY 49	
	ACCEPT	REJECT

WELD WIRE ACCEPTANCE 50	PENETRANT 51	
	ACCEPT	REJECT

REPAIR PER SRI W-001 52	WELD WIRE LAB TICKET 53
☐ I ☐ II ☐ III	
PCN 54	WELD WIRE LOT NUMBER 55

MR CD 56	LAB / LICALL 57	SRI NUMBER 58	NUMBER OF ATTACHMENTS 59	NUMBER OF NCSDs 60
B			(1) 2 3 4 5 6 7 8 9 10 — 1	(1) 2 3 4 5 6 7 8 9 10 — 1

MAF/MMA 37-033A (11/95)

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NCSD SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062529	2	2

BLOCK 42 CONTINUED (ITEMS 2-10)

SEE ATTACHMENT 2-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/18/02

STRESS MRB [redacted] 11-18-02

PAMRB [redacted] 11-18-02

NASA Eng. : [redacted] 11/19/02

NASA S&MA [redacted] 11/19/02

BLOCK 42 cont'd.

ALL WORK ON THIS ITEM IS COMPLETE AND ACCEPTABLE.

[redacted] 11-19-2

NASA [redacted] 11/19/02

CONTRACTS: [redacted] 11/20/02

OD 02/OD/0412

MAF/MMA 37-028 (12/93)

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These rivets are used to attach nutplates to the nosecone brackets. The rivets serve two primary functions:

- To prevent nut rotation as the bolts are installed; and
- To prevent nut push out if the mechanic has to "lean" on the screw during assembly.

Once the fastener is installed, the rivets do not carry any load; they are only functional during bolt installation.

If the rivets had failed due to the gapping condition, the nose cone fasteners would not have achieved drawing required torque values. Any fastener installation failures would have been documented on NCD and dispositioned by MRB.

If the rivet heads had protruded, the rivet head would bear against the ISL of the nosecone causing minor damage i.e. scuff marks/scratches etc. that would have been reported during numerous inspections performed at MAF and MSFC during assembly and installation. No evidence of scratches or damage was detected at any of the assembly and installation locations, i.e. MSFC, Bldg 318, Final Assembly or Bldg 420. Any undetected damage to the nose cone, including a surface scratch, would not adversely affect the structural capability of the nose cone. Worse case undetectable damage was addressed by a full-scale damage tolerance test as part of nose cone verification.

Engineering disposition is use as is. Form, fit and function not adversely affected. MS Unaffected.

Coordinated with [redacted] Parts Engineering and [redacted] Composite Materials.

ENG MRB [redacted] 11/18/02
STRESS MRB [redacted] 11-18-02
PAMRB [redacted] 11/19/02

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26-16-2003 07:40

NCD ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062529	3	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
3	809/1041234-010	NOTED	2	2	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
BRACKET, ISOLATOR ASSY				I (D) C

DEFECT CODE 12	HDWR CODE 13	CC 14	EE BADGE 15	FAILURE 16	CRIT 17	DEPT FND 18	DEPT LBL 19	SCC 20	WELD CODE 21	WELD GRD 22
BKDC0DRC	SN	SI		Y / (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/18/02	T / V / S		☐ VISUAL ☐ X-RAY ☐ PENETRANT
[redacted]	[redacted]	DATE 30: 11-18-2	MATERIAL THICKNESS 26: ACTUAL / DRAWING	DEFECT LOC 27: ISL / OSL	
RELIABILITY ASSURANCE	BADGE	DATE 31		REP ATTEMPT 28: ISL / OSL	

DISCREPANCY DESCRIPTION 32	REPAIR 33	DEFECT LOCATION 34	DEFECT LENGTH 35

SUSPECT MS 20605 R4 W4 BLIND RIVETS DO NOT MEET STP 2002 GAPPING OR STP 2003 FLUSHNESS REQUIREMENTS AS REQUIRED BY ENGINEERING DRAWING.

CAUSE AND CORRECTIVE ACTION DATA

CAUSE 36: VENDOR ERROR

CORRECTIVE ACTION 37: SCAR-02-078

CAC 38	CAUSE & CORRECTIVE ACTION ACCEPTANCE	BADGE	DATE 39	PA&A CAUSE & CORRECTIVE ACTION REVIEW	BADGE	DATE 40
SC	[redacted]		11/20/02	[redacted]	[redacted]	11/26/02

DISPOSITION DATA

☒ MRB 41 DISPOSITION 42

BLOCK 3 CONT'D:

S/N	EFFECTIVITY
00000000403	ET-93
00000000405	ET-94

RELIABILITY ASSURANCE [redacted] 11/18/02

BLOCK 42 CONT'D.

SUBMIT TO ENG. FOR EVALUATION.

[redacted] 11-18-2

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	MSS [redacted] 11-14-2	

VISUAL INSPECTION 46		PROD OPS X-RAY 47	
ACCEPT	REJECT	ACCEPT	REJECT

WELDER 48	PA X-RAY 49	
	ACCEPT	REJECT

WELD WIRE ACCEPTANCE 50	PENETRANT 51	
	ACCEPT	REJECT

REPAIR PER SRI W-001 52	WELD WIRE LAB TICKET 53
☐ I ☐ II ☐ III	
PCN 54	WELD WIRE LOT NUMBER 55

MR CD 56	LAB / LICALL 57	SRI NUMBER 58	NUMBER OF ATTACHMENTS 59	NUMBER OF NCSDs 60
3			~~1 2 3 4 5 6 7 8 9~~ 10	(1) ~~2 3 4 5 6 7 8 9 10~~ 1

MAF/MMA 37-033A (11/95)

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NCSD SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N 0 6 2 5 2 9	3	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 2-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/18/02

PAMRB [redacted] 11/19/02

BLOCK 42 CONT'D.

ALL WORK ON THIS ITEM IS COMPLIANT AND ACCEPTABLE.

[redacted] 11-19-2

MAF/MMA 37-028 (12/93)

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NCD ITEM DATA

NCD NUMBER A1: N0625629 | ITEM A2: 4 | PAGE A3: 1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
4	809110412 34-019	NOTED	2	2	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
BRACKET, ISOLATOR ASSY				I (D) C

DEFECT CODE 12	HDWR CODE 13	CC 14	EE BADGE 15	FAILURE 16	CRIT 17	DEPT FND 18	DEPT LBL 19	SCC 20	WELD CODE 21	WELD GRD 22
BK DC OD RC SN		SI		Y / (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/18/02	T / V / S		VISUAL

VALIDATED BY	BADGE	DATE 30	MATERIAL THICKNESS 26		DEFECT LOC 27	X-RAY
[redacted]	[redacted]	11-19-02	ACTUAL	DRAWING	ISL / OSL	

RELIABILITY ASSURANCE	BADGE	DATE 31	REP ATTEMPT 28	PENETRANT
			ISL / OSL	

DISCREPANCY DESCRIPTION 32	REPAIR 33	DEFECT LOCATION 34	DEFECT LENGTH 35

SUSPECT MS20605 R4W4 BLIND RIVETS DO NOT MEET STP2002 GAPPING OR STP2003 FLUSHNESS REQUIREMENTS AS REQUIRED BY ENGINEERING DRAWING.

CAUSE AND CORRECTIVE ACTION DATA

CAUSE 36: VENDOR ERROR

CORRECTIVE ACTION 37: SCAR-02-078

CAC 38	CAUSE & CORRECTIVE ACTION ACCEPTANCE	BADGE	DATE 39	PA&A CAUSE & CORRECTIVE ACTION REVIEW	BADGE	DATE 40
SC	[redacted]	[redacted]	11/26/02	[redacted]	[redacted]	11/26/02

DISPOSITION DATA

MRB 41	DISPOSITION 42	SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
X	BLOCK 3 CONT'D: S/N EFFECTIVITY 00000000434 ET-93 00000000435 ET-94 RELIABILITY ASSURANCE [redacted] 11/18/02 BLOCK 42 CONT'D. SUBMIT TO ENG. FOR EVALUATION. [redacted] 11-19-2		MSS [redacted] 11-19	

VISUAL INSPECTION 46		PROD OPS X-RAY 47	
ACCEPT	REJECT	ACCEPT	REJECT

WELDER 48	PA X-RAY 49	
	ACCEPT	REJECT

WELD WIRE ACCEPTANCE 50	PENETRANT 51	
	ACCEPT	REJECT

REPAIR PER SRI W-001 52	WELD WIRE LAB TICKET 53
☐ I ☐ II ☐ III	

PCN 54	WELD WIRE LOT NUMBER 55

MR CD 56	LAB / LICALL 57	SRI NUMBER 58	NUMBER OF ATTACHMENTS 59	NUMBER OF NCSDs 60
3			~~1 2 3 4 5 6 7 8 9 10~~	(1) ~~2 3 4 5 6 7 8 9 10~~ 1

MAF/MMA 37-033A (11/95)

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NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062529	4	2

BLOCK 42 CONTINUED

SEE ATTACHMENT 2-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/18/02

PA/MRB [redacted] 11/19/02

BLOCK 42 CONT'D.

ALL WORK ON THIS ITEM IS CONFORMING AND ACCEPTABLE.

[redacted] 11-19-2

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NCD ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062529	5	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER	TRACEABILITY NUMBER 2	LOT QTY 3	QTY REJ 4	UOM 5
5	809110412 34-020	NOTED	6	6	EA

PART NAME 6	PI NUMBER 7	STEP NO 8	SHEET / ZONE / VIEW 9	CA TYPE 10
BRACKET, ISOLATOR ASSY				I (D) C

DEFECT CODE 11	HDWR CODE 12	CC 13	EE BADGE 14	FAILURE 15	CRIT 16	DEPT FND 17	DEPT LBL 18	SCC 19	WELD CODE 20	WELD GRD 21
BKDCODRC	SN	SI		Y (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/18/02	T / V / S		☐ VISUAL ☐ X-RAY ☐ PENETRANT

VALIDATED BY	BADGE	DATE 30	MATERIAL THICKNESS 26 ACTUAL	MATERIAL THICKNESS 26 DRAWING	DEFECT LOC 27	REP ATTEMPT 28
[redacted]	[redacted]	11-18-2			ISL / OSL	ISL / OSL

RELIABILITY ASSURANCE	BADGE	DATE 31

DISCREPANCY DESCRIPTION 32	REPAIR 33	DEFECT LOCATION 34	DEFECT LENGTH 35

SUSPECT MS20605 R4 W4 BLIND RIVETS DO NOT MEET STP 2002 GAPPING OR STP 2003 FLUSHNESS REQUIREMENTS AS REQUIRED BY ENGINEERING DRAWING.

CAUSE AND CORRECTIVE ACTION DATA

CAUSE 36

VENDOR ERROR

CORRECTIVE ACTION 37

SCAR-02-078

CAC 38	CAUSE & CORRECTIVE ACTION ACCEPTANCE	BADGE	DATE 39	PA/QA CAUSE & CORRECTIVE ACTION REVIEW	BADGE	DATE 40
SC	[redacted]		11/20/02	[redacted]	[redacted]	11/26/02

DISPOSITION DATA

☒ MRB 41	DISPOSITION 42	SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
			MSS [redacted] 11-19-2	

BLOCK 3 CONT'D:

S/N	EFFECTIVITY
00000000460	ET-93
00000000462	ET-93
00000000465	ET-93
00000000467	ET-94
00000000469	ET-94
00000000470	ET-94

VISUAL INSPECTION 46 ACCEPT	VISUAL INSPECTION 46 REJECT	PROD OPS X-RAY 47 ACCEPT	PROD OPS X-RAY 47 REJECT

WELDER 48	PA X-RAY 49 ACCEPT	PA X-RAY 49 REJECT

WELD WIRE ACCEPTANCE 50	PENETRANT 51 ACCEPT	PENETRANT 51 REJECT

RELIABILITY ASSURANCE

[redacted] 11/18/02

REPAIR PER SRI W-001 52	WELD WIRE LAB TICKET 53
☐ I ☐ II ☐ III	

PCN 54	WELD WIRE LOT NUMBER 55

BLOCK 42 CONT'D.

SUBMIT TO ENG. FOR EVALUATION.

[redacted] 11-18-2

MR CD 56	LAB / LICALL 57	SRI NUMBER 58	NUMBER OF ATTACHMENTS 59	NUMBER OF NCSDs 60
3			1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10 1

MAF/MMA 37-033A (11/95)

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NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062529	5	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 2-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/18/02

PA/QB [redacted] 11/18/02

BLOCK 42 CONT'D.

ALL WORK ON THIS ITEM IS COMPLIANT AND ACCEPTABLE.

QA [redacted] 11-19-2

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NCD ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N0625 29	6	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
6	809/104/234-029	NOTED	2	2	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
BRACKET, ISOLATOR ASSY				I D C

DEFECT CODE 12	HDWR CODE 13	CC 14	EE BADGE 15	FAILURE 16	CRIT 17	DEPT FND 18	DEPT LBL 19	SCC 20	WELD CODE 21	WELD GRD 22
BKDCODRCSN		SI		Y (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/18/02	T / V / S		☐ VISUAL

VALIDATED BY	BADGE	DATE 30	MATERIAL THICKNESS 26 ACTUAL	MATERIAL THICKNESS 26 DRAWING	DEFECT LOC 27	☐ X-RAY
[redacted]	[redacted]	11-18-2			ISL / OSL	

RELIABILITY ASSURANCE	BADGE	DATE 31	REP ATTEMPT 28	☐ PENETRANT
			ISL / OSL	

DISCREPANCY DESCRIPTION 32	REPAIR 33	DEFECT LOCATION 34	DEFECT LENGTH 35

SUSPECT MS20605 BLIND RIVETS DO NOT MEET STP 2002 GAPPING OR STP 2003 FLUSHNESS REQUIREMENTS AS REQUIRED BY ENGINEERING DRAWING.

CAUSE AND CORRECTIVE ACTION DATA

CAUSE 36

VENDOR ERROR

CORRECTIVE ACTION 37

SCAR-02-078

CAC 38	CAUSE & CORRECTIVE ACTION ACCEPTANCE	BADGE	DATE 39	PA & CAUSE & CORRECTIVE ACTION REVIEW	BADGE	DATE 40
SC	[redacted]		18NOV02	[redacted]		11/26/02

DISPOSITION DATA

☒ MRB 41 DISPOSITION 42

BLOCK 3 CONT'D:

S/N EFFECTIVITY

00000000 490 ET-93

00000000 512 ET-94

RELIABILITY ASSURANCE

[redacted] 11/18/02

BLOCK 42 CONT'D.

SUBMIT TO QAG FOR EVALUATION.

[redacted] 11-18-2

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	[redacted] 11-19-2	

VISUAL INSPECTION 46		PROD OPS X-RAY 47	
ACCEPT	REJECT	ACCEPT	REJECT

WELDER 48	PA X-RAY 49	
	ACCEPT	REJECT

WELD WIRE ACCEPTANCE 50	PENETRANT 51	
	ACCEPT	REJECT

REPAIR PER SRI W-001 52	WELD WIRE LAB TICKET 53
☐ I ☐ II ☐ III	

PCN 54	WELD WIRE LOT NUMBER 55

MR CD 56	LAB / LICALL 57	SRI NUMBER 58	NUMBER OF ATTACHMENTS 59	NUMBER OF NCSDs 60
3			~~1 2 3 4 5 6 7 8 9 10~~ 0	~~1~~ 2 ~~3 4 5 6 7 8 9 10~~ 1

MAF/MMA 37-033A (11/95)

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5-16-2003 07:40

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N0625 29	6	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 2-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/18/02

PAMRB [redacted] 11/19/02

BLOCK 42 cont'd.

ALL WORK ON THIS ITEM IS Complete AND ACCEPTABLE.

[redacted] 11-19-2

MAF/MMA 37-028 (12/93)

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NCD NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
NO 62529	7	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER	TRACEABILITY NUMBER 2	LOT QTY 3	QTY REJ 4	UOM 5
7	8091104-1234-030	NOTED	2	2	EA

PART NAME	PI NUMBER 7	STEP NO 8	SHEET / ZONE / VIEW 9	CA TYPE 10
BRACKET, ISOLATOR ASSY				I (D) / C

DEFECT CODE 11	HDWR CODE 12	CC 13	EE BADGE 14	FAILURE 15	CRIT 16	DEPT FND 17	DEPT LBL 18	SCC 19	WELD CODE 20	WELD GRD 21
BKIDCOD RC	SN	SI		Y (N)		3741	0012			

INITIATED BY	BADGE	DATE 22	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/18/02	T / V / S		☐ VISUAL ☐ X-RAY ☐ PENETRANT

VALIDATED BY	BADGE	DATE 26	MATERIAL THICKNESS 27 ACTUAL	MATERIAL THICKNESS 27 DRAWING	DEFECT LOC 28	REP ATTEMPT 29
[redacted]	[redacted]	11-18-2			ISL / OSL	ISL / OSL

RELIABILITY ASSURANCE	BADGE	DATE 30

DISCREPANCY DESCRIPTION 31	REPAIR 32	DEFECT LOCATION 33	DEFECT LENGTH 34
SUSPECT MS20605 R4W4 BLIND RIVETS DO NOT MEET STP 2002 GAPPING OR STP2003 FLUSHNESS REQUIREMENTS AS REQUIRED BY ENGINEERING DRAWING.			

CAUSE AND CORRECTIVE ACTION DATA

CAUSE 35

VENDOR ERROR

CORRECTIVE ACTION 36

SCAR - 02 - 078

CAC 37	CAUSE	BADGE	DATE 38	PA&A	BADGE	DATE 39
SC	[redacted]	[redacted]	11/20/02	[redacted]	[redacted]	11/26/02

DISPOSITION DATA

☒ MRB 40 DISPOSITION 41

BLOCK 3 CONT'D:

S/N	EFFECTIVITY
00000000 S24	ET-93
00000000 S25	ET-94

RELIABILITY ASSURANCE

[redacted] 11/18/02

BLOCK 42 CONT'D.

SUBMIT TO QUAL. FOR EVALUATION.

[redacted] 11-18-2

SHOP STAMP 42	INSP STAMP 43	CUST STAMP 44
	MSS [redacted] 11-19-2	

VISUAL INSPECTION 45 ACCEPT	VISUAL INSPECTION 45 REJECT	PROD OPS X-RAY 46 ACCEPT	PROD OPS X-RAY 46 REJECT

WELDER 47	PA X-RAY 48 ACCEPT	PA X-RAY 48 REJECT

WELD WIRE ACCEPTANCE 49	PENETRANT 50 ACCEPT	PENETRANT 50 REJECT

REPAIR PER SRI W-001 51	WELD WIRE LAB TICKET 52
☐ I ☐ II ☐ III	

PCN 53	WELD WIRE LOT NUMBER 54

MR CD 55	LAB / LICALL 56	SRI NUMBER 57	NUMBER OF ATTACHMENTS 58	NUMBER OF NCSDs 59
3			~~1 2 3 4 5 6 7 8 9 10~~ 0	0 ~~1 2 3 4 5 6 7 8 9 10~~ 1

MAF/MMA 37-033A (11/95)

COPY 1

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16-2003 07:40

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062529	7	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 2-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/18/02

PAMRB [redacted] 11/19/02

BLOCK 42 CONT'D.

ALL WORK ON THIS ITEM IS COMPLETE AND ACCEPTABLE.

[redacted] 11-19-2

MAF/MMA 37-028 (12/93)

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NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062529	8	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
8	809-1104-1234-039	NOTED	2	2	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
BRACKET, ISOLATOR ASSY				I (D) C

DEFECT CODE 12	HDWR CODE 13	CC 14	EE BADGE 15	FAILURE 16	CRIT 17	DEPT FND 18	DEPT LBL 19	SCC 20	WELD CODE 21	WELD GRD 22
BKDCDRC	S/N	SI		Y (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/18/02	T / V / S		☐ VISUAL ☐ X-RAY ☐ PENETRANT

VALIDATED BY	BADGE	DATE 30	MATERIAL THICKNESS 26 ACTUAL	MATERIAL THICKNESS 26 DRAWING	DEFECT LOC 27	REP ATTEMPT 28
[redacted]	[redacted]	11-18-2			ISL / OSL	ISL / OSL

RELIABILITY ASSURANCE	BADGE	DATE 31

DISCREPANCY DESCRIPTION 32	REPAIR 33	DEFECT LOCATION 34	DEFECT LENGTH 35

SUSPECT MS 20605 R4W4 BLIND RIVETS DO NOT MEET STP 2002 GAPPING OR STP 2003 FLUSHNESS REQUIREMENTS AS REQUIRED BY ENGINEERING DRAWING.

CAUSE AND CORRECTIVE ACTION DATA

CAUSE 36: VENDOR ERROR

CORRECTIVE ACTION 37: SCAR-02-078

CAC 38	CAUSE & CORRECTIVE ACTION ACCEPTANCE	BADGE	DATE 39	PA&A CAUSE & CORRECTIVE ACTION REVIEW	BADGE	DATE 40
SC	[redacted]	[redacted]	11/18/02	[redacted]	[redacted]	11/26/02

DISPOSITION DATA

☒ MRB 41 DISPOSITION 42	SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
		MQS 11-19-2	[redacted] 11-19-2

BLOCK 3 CONT'D:

S/N	EFFECTIVITY
0000000554	ET-93
0000000555	ET-94

RELIABILITY ASSURANCE
[redacted] - 11/18/02

BLOCK 42 CONT'D.
SUBMIT TO ENG. FOR EVALUATION.
[redacted] 11-18-2

VISUAL INSPECTION 46 ACCEPT	VISUAL INSPECTION 46 REJECT	PROD OPS X-RAY 47 ACCEPT	PROD OPS X-RAY 47 REJECT

WELDER 48	PA X-RAY 49 ACCEPT	PA X-RAY 49 REJECT

WELD WIRE ACCEPTANCE 50	PENETRANT 51 ACCEPT	PENETRANT 51 REJECT

REPAIR PER SRI W-001 52	WELD WIRE LAB TICKET 53
☐ I ☐ II ☐ III	

PCN 54	WELD WIRE LOT NUMBER 55

MR CD 56	LAB / LICALL 57	SRI NUMBER 58	NUMBER OF ATTACHMENTS 59	NUMBER OF NCSDs 60
3			1 2 3 4 5 6 7 8 9 10 (0)	(1) 2 3 4 5 6 7 8 9 10 1

MAF/MMA 37-033A (11/95)

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NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062529	8	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 2-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/18/02

PAMRB [redacted] 11/19/02

BLOCK 42 cont'd.

ALL WORK ON THIS ITEM IS COMPLETE AND ACCEPTABLE.

PA [redacted] 11-19-2

MAF/MMA 37-028 (12/93)

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NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062529	9	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
9	809110412 34-040	NOTED	2	2	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
BRACKET, ISOLATOR ASSY				I (D) C

DEFECT CODE 12	HDWR CODE 13	CC 14	EE BADGE 15	FAILURE 16	CRIT 17	DEPT FND 18	DEPT LBL 19	SCC 20	WELD CODE 21	WELD GRD 22
BK/DC/OD/RC/SN		SI		Y / (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/18/02	T / V / S		☐ VISUAL

VALIDATED BY	BADGE	DATE 30	MATERIAL THICKNESS 26 ACTUAL	MATERIAL THICKNESS 26 DRAWING	DEFECT LOC 27	☐ X-RAY
[redacted]	[redacted]	11-18-2			ISL / OSL	

RELIABILITY ASSURANCE	BADGE	DATE 31	REP ATTEMPT 28	☐ PENETRANT
			ISL / OSL	

DISCREPANCY DESCRIPTION 32	REPAIR 33	DEFECT LOCATION 34	DEFECT LENGTH 35

SUSPECT MS20605 R4 W4 BLIND RIVETS DO NOT MEET STP 2002 GAPPING OR STP 2003 FLUSHNESS REQUIREMENTS AS REQUIRED BY ENGINEERING DRAWING.

CAUSE AND CORRECTIVE ACTION DATA

CAUSE 36: VENDOR ERROR

CORRECTIVE ACTION 37: SCAR-02-078

CAC 38	CAUSE & CORRECTIVE ACTION ACCEPTANCE	BADGE	DATE 39	CAUSE & CORRECTIVE ACTION REVIEW	BADGE	DATE 40
SC	[redacted]	[redacted]	11/20/02	[redacted]	[redacted]	11/26/02

DISPOSITION DATA

☒ MRB 41 DISPOSITION 42

BLOCK 3 CONT'D:

S/N	EFFECTIVITY
00000000584	ET-93
00000000585	ET-94

RELIABILITY ASSURANCE
[redacted] 11/18/02

BLOCK 42 CONT'D.

SUBMIT TO ENG. FOR EVALUATION.

[redacted] 11-18-2

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	MSS [redacted] 11-14-2	

VISUAL INSPECTION 46		PROD OPS X-RAY 47	
ACCEPT	REJECT	ACCEPT	REJECT

WELDER 48	PA X-RAY 49	
	ACCEPT	REJECT

WELD WIRE ACCEPTANCE 50	PENETRANT 51	
	ACCEPT	REJECT

REPAIR PER SRI W-001 52	WELD WIRE LAB TICKET 53
☐ I ☐ II ☐ III	

PCN 54	WELD WIRE LOT NUMBER 55

MR CD 56	LAB / LICALL 57	SRI NUMBER 58	NUMBER OF ATTACHMENTS 59	NUMBER OF NCSDs 60
3			~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~	(1) ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062529	9	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 2-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/18/02

PA/QC [redacted] 11/19/02

BLOCK 42 cont'd.

ALL WORK ON THIS ITEM IS COMPLETE AND ACCEPTABLE.

[redacted] 11-19-2

MAF/MMA 37-028 (12/93)

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NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N06252 9	10	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
10	809.1.1.04.1234-049	NOTED	2	2	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
BRACKET, ISOLATOR ASSY				I (D) C

DEFECT CODE 12	HDWR CODE 13	CC 14	EE BADGE 15	FAILURE 16	CRIT 17	DEPT FND 18	DEPT LBL 19	SCC 20	WELD CODE 21	WELD GRD 22
BKDCDD	RCSN	SI		Y (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/18/02	T / V / S		☐ VISUAL
VALIDATED BY	BADGE	DATE 30	MATERIAL THICKNESS 26 ACTUAL / DRAWING	DEFECT LOC 27	☐ X-RAY
[redacted]	[redacted]	11/18/02		ISL / OSL	☐ PENETRANT
RELIABILITY ASSURANCE	BADGE	DATE 31		REP ATTEMPT 28 ISL / OSL	

DISCREPANCY DESCRIPTION 32	REPAIR 33	DEFECT LOCATION 34	DEFECT LENGTH 35
SUSPECT MS 20605 R4W4 BLIND RIVETS DO NOT MEET STP2002 GAPPING OR STP 2003 FLUSHNESS REQUIREMENTS AS REQUIRED BY ENGINEERING DRAWING.			

CAUSE AND CORRECTIVE ACTION DATA

CAUSE 36: VENDOR ERROR

CORRECTIVE ACTION 37: SCAR-02-078

CAC 38	CAUSE A CODE	BADGE	DATE 39	PA REVIEW	BADGE	DATE 40
SC	[redacted]	[redacted]	11/20/02	[redacted]	[redacted]	11/28/02

DISPOSITION DATA

☒ MRB — DISPOSITION 42

BLOCK 3 CONT'D:

S/N	EFFECTIVITY
00000000614	ET-93
00000000615	ET-94

RELIABILITY ASSURANCE [redacted] 11/18/02

BLOCK 42 CONT'D.

SUBMIT TO ENG FOR EVALUATION.

[redacted] 11-18-2

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	MQS [redacted] 11-19-02	

VISUAL INSPECTION 46		PROD OPS X-RAY 47	
ACCEPT	REJECT	ACCEPT	REJECT

WELDER 48	PA X-RAY 49	
	ACCEPT	REJECT

WELD WIRE ACCEPTANCE 50	PENETRANT 51	
	ACCEPT	REJECT

REPAIR PER SRI W-001 52	WELD WIRE LAB TICKET 53
☐ I ☐ II ☐ III	
PCN 54	WELD WIRE LOT NUMBER 55

MR CD 56	LAB / LICALL 57	SRI NUMBER 58	NUMBER OF ATTACHMENTS 59	NUMBER OF NCSDs 60
3			1 2 3 4 5 6 7 8 9 10	(1) 2 3 4 5 6 7 8 9 10 / 1

MAF/MMA 37-033A (11/95)

COPY 1

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16-2008 07:40

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062529	10	2

BLOCK 42 CONTINUED

SEE ATTACHMENT 2-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/18/02

PAMRB [redacted] 11/19/02

BLOCK 42 CONTD.

ALL WORK ON THIS NCD IS COMPLETE AND ACCEPTABLE AND THE WITHHELD TAG HAS BEEN DESTROYED.

RA [redacted] 11-19-2

MAF/MMA 37-028 (12/93)

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