NCD NONCONFORMANCE DOCUMENT

MRB 41a X

DOCUMENT INITIATION DATA

N 062523

ASSY/DETAIL PART NUMBER	a TRACEABILITY NUMBER	b ORDER TYPE/NUMBER	c
8090101800-519	0000000109		

ASSY/DETAIL PART NAME	d PROJECT	e EFFECTIVITY	f CTRL PT	g GFP	h
ETCOMPLETE - KSC	ET / COMM	ET-116	1020	Y / N	

SUPPLIER CODE i	SUPPLIER NAME j	ORIGINATION LOCATION k	TAIR BOOK (BK/PG) l
		KSC	

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	8091104123 4-009	0000000039 4	1	1	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
BRACKET, ISOLATOR ASSEMBLY				I / D / [redacted]

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
BKDC QDRC SN		SZ		Y / N		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/13/02	T / V / S		☐ VISUAL

VALI[redacted]	BADGE	DATE 30	MATERIAL THICKNESS 26 ACTUAL	MATERIAL THICKNESS 26 DRAWING	DEFECT LOC 27	☐ X-RAY
[redacted]	[redacted]	11-15-2			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 MS 20605 R4W4 BLIND RIVETS DO NOT MEET STP 2002 GAPPING REQUIREMENTS 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	[redacted]	DATE 39	[redacted]	DATE 40
SC	[redacted]	11/15/02	[redacted]	11/19/02

DISPOSITION DATA

☒ MRB 41	DISPOSITION 42	SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	SUBMIT TO ENG. FOR EVALUATION. [redacted] 11-15-2		MSS 11/15/02	

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 1 Pg	1 2 3 4 5 6 7 8 9 10 1

DOCUMENT CLOSURE DATA

DISP CODE o	NUMBER OF ITEMS p	TRANSFER TO DOCUMENT q	PRODUCTION OPERATIONS CLOSURE ACCEPTANCE	DATE r
N (M) F	1 2 3 4 5 6 7 8 9 10		[redacted]	11-15-02

QC SUPERVISOR [redacted]	DATE s	CUSTOMER [redacted]	DATE t
[redacted]	11/15/02	[redacted] NRR	11/18/02

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062523	1	2

4

BLOCK 42 CONTINUED (ITEMS 1-9)

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

STRESS MRB [redacted] 11/15/02

PAMRB [redacted] 11/15/02

NASA Eng.: [redacted] 11/15/02

NASA S&MA: [redacted] 11/15/02

NASA [redacted] 11/16/02

[redacted] 11/15/02

CONTRACTS: [redacted] 11/15/02

02/05/0406

BLOCK 42 CONT. - ALL WORK PER THIS MRB NCD IS COMPLETE AND ACCEPTABLE.

QA [redacted] SSM 11/15/02

MAF/MMA 37-028 (12/93)

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 don't 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 installations 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] 11/15/02
STRESS MRB [redacted] 11/15/02
PAMRB [redacted] 11/15/02

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062523	2	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
	809110412 34-010	0000000424	1	1	EA

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

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]	11/13/02	T / V / S		☐ VISUAL ☐ X-RAY ☐ PENETRANT

V	BADGE	DATE 30	MATERIAL THICKNESS 26 ACTUAL	MATERIAL THICKNESS 26 DRAWING	DEFECT LOC 27	REP ATTEMPT 28
[redacted]	[redacted]	11-15-2			ISL / OSL	ISL / OSL

RELIABILITY ASSURANCE	BADGE	DATE 31

DISCREPANCY DESCRIPTION 32	REPAIR 33	DEFECT LOCATION 34	DEFECT LENGTH 35

SUSPECT MS20605R4W4 BLIND RIVETS DO NOT MEET STP 2002 GAPPING REQUIREMENTS 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	[redacted]	DATE 39	[redacted]	[redacted]	DATE 40
SC	[redacted]	11-15-02	[redacted]	[redacted]	11/19/02

DISPOSITION DATA

☒ MRB 41	DISPOSITION 42	SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	SUBMIT TO ENG. FOR EVALUATION.		MSS [redacted] 11/15/02	

[redacted] 11-15-2

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

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062523	2	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

STRESS MRB [redacted] 11/15/02

PA/MRB [redacted] 11/15/02

BLOCK 42 CONT. - THIS NCD ITEM IS COMPLETE AND ACCEPTABLE.

PA [redacted] SSM 11/15/02

MAF/MMA 37-028 (12/93)

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062523	3	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
	B091104 1234-019	000000000454	1	1	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
BRACKET, ISOLATOR ASSEMBLY				1 (0) 2

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
B K D C O D R C	S N	SZ		Y (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/13/02	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]	11-15-2			ISL / OSL	ISL / OSL

RELIABILITY ASSURANCE	BADGE	DATE 31

DISCREPANCY DESCRIPTION 32	REPAIR 33	DEFECT LOCATION 34	DEFECT LENGTH 35

SUSPECT MS20605 R4W4 BLIND RIVETS DO. NOT MEET STP 2002 GAPPING REQUIREMENTS 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	BADGE	DATE 39	CAUSE / CORRECTIVE ACTION REVIEW	BADGE	DATE 40
SC	[redacted]	[redacted]	15 NOV 02	[redacted]	[redacted]	11/19/02

DISPOSITION DATA

☒ MRB 41 DISPOSITION 42: SUBMIT TO Engr. FOR EVALUATION.

[redacted] 11-15-2

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
/	SSW 11/15/02	

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

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N06252 3	3	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION

ENG MRB [redacted] 11/15/02

STRESS MRB [redacted] 11/15/02

PAMRB [redacted] 11/15/02

BLOCK 42 CONT. - THIS NCD ITEM IS COMPLETE AND ACCEPTABLE.

MSS

TA [redacted] 11/15/02

MAF/MMA 37-028 (12/93)

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062523	4	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
	80911041234-020	NOTED	3	3	EA

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

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
BKDCODRC	SN	SI		Y / (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/13/02	T / V / S		☐ VISUAL
VALIDATED BY		DATE 30	MATERIAL THICKNESS 26 ACTUAL / DRAWING	DEFECT LOC 27 ISL / OSL	☐ X-RAY
[redacted]	[redacted]	11-15-2			☐ PENETRANT
RELIABILITY ASSURANCE	BADGE	DATE 31		REP ATTEMPT 28 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 REQUIREMENTS 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[redacted]	[redacted]	DATE 40
SC	[redacted]	15NOV02	[redacted]	[redacted]	11/19/02

DISPOSITION DATA

☒ MRB 41 DISPOSITION 42

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
/	SSW 11/15/02	

Block 3 CONT'D:

S/N 00000000684

S/N 00000000685

S/N 00000000687

RELIABILITY ASSURANCE

[redacted] 11/13/02

Block 42 cont'd. Submit to Eng. for evaluation.

[redacted] 11-15-2

VISUAL INSPECTION 46 ACCEPT	REJECT	PROD OPS X-RAY 47 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 Ø	(1) 2 3 4 5 6 7 8 9 10

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

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N06252 3	4	2

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION

ENG MRB [redacted] 11/15/02

STRESS MRB [redacted] 11/15/02

PA/MRB [redacted] 11/15/02

BLOCK 42 CONT. - ALL WORK PER THIS MRB AND NAD 15 COMPLETE AND ACCEPTABLE.

PA [redacted] SSW 11/15/02

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062523	5	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
	B09.1.1041234-029	000000000506	1	1	EA

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

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]	11/13/02	T / V / S		VISUAL

VALIDATED BY	BADGE	DATE 30	MATERIAL THICKNESS 26 ACTUAL	MATERIAL THICKNESS 26 DRAWING	DEFECT LOC 27	X-RAY
[redacted]	[redacted]	11-13-2			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 R4W4 BLIND RIVETS DO NOT MEET STP 2002 GAPPING REQUIREMENTS 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	[redacted]	DATE 40
SC	[redacted]	15NOV02	[redacted]	11/7/02

DISPOSITION DATA

☒ MRB 41 DISPOSITION 42: SUBMIT TO Engg. FOR EVALUATION.

[redacted] 11-15-2

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	MSS 11/15/02	

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

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062523	5	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

STRESS MRB [redacted] 11/15/02

PAMRB [redacted] 11/15/02

Block 42 Cont'd,

This NCD Item is complete and acceptable.

[redacted] 11/15/02

P.A.

MAF/MMA 37-028 (12/93)

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062523	6	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER	TRACEABILITY NUMBER 2	LOT QTY 3	QTY REJ 4	UOM 5	6
	809110412 34-030	0000000544	1	1	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
BKDCODRCSN		SZ		Y (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/13/02	T I V I S		☐ VISUAL

VALIDATED BY	BADGE	DATE 30	MATERIAL THICKNESS 26 ACTUAL	MATERIAL THICKNESS 26 DRAWING	DEFECT LOC 27	☐ X-RAY
[redacted]	[redacted]	11-15-2			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 R4W4 BLIND RIVETS DO NOT MEET STP 2002 GAPPING REQUIREMENTS 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	BADGE	DATE 39	BADGE	DATE 40
SC [redacted]	[redacted]	15NOV02	[redacted]	11/19/02

DISPOSITION DATA

☒ MRB 41	DISPOSITION 42	SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	SUBMIT TO Engg. FOR EVALUATION. [redacted] 11-15-2		MSS [redacted] 11/15/02	

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	1 2 3 4 5 6 7 8 9 10

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N.D.62523	6	2

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

STRESS MRB [redacted] 11/15/02

PAMRB [redacted] 11/15/02

Block 42 Cont'd,

ALL WORK for this Item is complete and ACCEPTABLE.

Q.A. [redacted] 11/15/02

MBS

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062523	7	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
	8091104-1234-039	0000000574	1	1	EA

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

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
BKDC	ODRC	SN	SI	Y / N		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/13/02	T / V / S		☐ VISUAL

VALI[redacted]	BADGE	DATE 30	MATERIAL THICKNESS 26		DEFECT LOC 27	☐ X-RAY
[redacted]	[redacted]	11-15-2	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 MS 20605 R4W4 BLIND RIVETS DO NOT MEET STP 2002 GAPPING REQUIREMENTS 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 ACT[redacted]CE	BADGE	DATE 39	PA[redacted]	BADGE	DATE 40
SC	[redacted]	8956	11/15/02	[redacted]	8463	11/19/02

DISPOSITION DATA

☒ MRB

DISPOSITION 42: SUBMIT TO ENG. FOR EVALUATION.

[redacted] 11-15-2

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	MSS [redacted] 11/18/02	

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

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062523	7	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

STRESS MRB [redacted] 11/15/02

PAMRB [redacted] 11/15/02

Block 42 Cont'd,

ALL WORK PER THIS ITEM IS COMPLETE AND ACCEPTABLE.

P.A. [redacted] 11/15/02

MSS

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062523	8	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
	8091104 1234-040	000000000604	1	1	EA

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

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
BKDCDDRCSN		SI		Y (N)		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/13/02	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]	11-15-2			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 REQUIREMENTS 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	BADGE	DATE 39	BADGE	DATE 40
SC	[redacted]	11/15/02	[redacted]	11/15/02

DISPOSITION DATA

☒ MRB 41	DISPOSITION 42	SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	SUBMIT TO ENG. FOR EVALUATION. [redacted] 11-15-2		11/15/02 [redacted]	

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
N.062523	8	2

4

BLOCK 42 CONTINUED
SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.
ENG MRB [redacted] 11/15/02
STRESS MRB [redacted] 11/15/02
PAMRB [redacted] 11/15/02

Block 42 Cont'd.

All work per this item is complete and acceptable.

P.I. [redacted] 11/15/02

MAF/MMA 37-028 (12/93)

NCID NONCONFORMANCE ITEM DATA

NMS

NCD NUMBER A1	ITEM A2	PAGE A3
N0625523	9	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
	809110412 34-049	0000000006 34	1	1	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
BRACKET, ISOLATOR ASSEMBLY				1

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		SC		Y N		3741	0012			

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/13/02	T I V I S		☐ VISUAL
VALIDATED BY	BADGE	DATE 30	MATERIAL THICKNESS 26	DEFECT LOC 27	☐ X-RAY
[redacted]	[redacted]	11-15-2	ACTUAL / DRAWING	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 BLINDRIVETS DO NOT MEET STP 2002 GAPPING REQUIREMENTS 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 [illegible]	BADGE	DATE 39	[illegible] EW	BADGE	DATE 40
SC	[redacted]		15NOV02	[redacted]	[redacted]	11/19/02

DISPOSITION DATA

☒ MRB 41 DISPOSITION 42

SUBMIT TO ENG FOR EVALUATION.

[redacted] 11-15-2

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	MSS [redacted] 11/15/02	

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~~	0 ~~1 2 3 4 5 6 7 8 9 10~~

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N.D.62523	9	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

SPES MRB [redacted] 11/15/02

PAMRB [redacted] 11/15/02

Block 42 Cont'd,

All work per this MRB NCA is complete and acceptable. Withheld tag has been destroyed.

Q.A. [redacted] 11/15/02

MAF/MMA 37-028 (12/93)