NCD NONCONFORMANCE DOCUMENT

MRB 41a X

NMS

257-4112

N 062525

DOCUMENT INITIATION DATA

ASSY/DETAIL PART NUMBER	TRACEABILITY NUMBER	ORDER TYPE/NUMBER
80901010000-510	00000000115	

ASSY/DETAIL PART NAME	PROJECT	EFFECTIVITY	CTRL PT	GFP
ET COMPLETE -420	ET / COMM	ET-122	1010	Y / G / N

SUPPLIER CODE	SUPPLIER NAME	ORIGINATION LOCATION	TAIR BOOK (BK/PG)
		420	

INITIAL REPORT	REFERENCE DOCUMENT(S)

ITEM INITIATION DATA

ITEM	PART NUMBER	TRACEABILITY NUMBER	LOT QTY	QTY REJ	UOM
1	80911041234-009	00000000720	1	1	EA

PART NAME	PI NUMBER	STEP NO	SHEET / ZONE / VIEW	CA TYPE
BRACKET, ISOLATOR ASSEMBLY				I / O / C

DEFECT CODE	HDWR CODE	CC	EE BADGE	FAILURE	CRIT	DEPT FND	DEPT LBL	SC	WELD CODE	WELD GRD
BKDCODRC	SN	SE		Y / N		3741	0000	[redacted]	0SD1-2	

INITIATED BY	BADGE	DATE	WELD TYPE	ORIG WELD TOOL	DETECT METHOD
[redacted]	[redacted]	11/15/02	T / V / S		☐ VISUAL ☐ X-RAY ☐ PENETRANT

VALIDATED BY	DATE	MATERIAL THICKNESS ACTUAL	MATERIAL THICKNESS DRAWING	DEFECT LOC	REP ATTEMPT
[redacted]	11-15-2			ISL / OSL	ISL / OSL

RELIABILITY ASSURANCE	BADGE	DATE

DISCREPANCY DESCRIPTION	REPAIR	DEFECT LOCATION	DEFECT LENGTH

SUSPECT MS20605 R4W4 BLIND RIVETS DO NOT MEET STP2002 GAPPING OR STP 2003 FLUSHNESS REQUIREMENTS AS REQUIRED BY ENGINEERING DRAWING.

CAUSE AND CORRECTIVE ACTION DATA

CAUSE: VENDOR ERROR

CORRECTIVE ACTION: SCAR -02-078

CAC	CAUSE & CORRECTIVE ACTION LOCATION	BADGE	DATE	[redacted]	[redacted]	DATE
SC	[redacted]		15NOV02	[redacted]	[redacted]	11/18/02

DISPOSITION DATA

☒ MRB 41 DISPOSITION: SUBMIT TO ENG. FOR EVALUATION.

[redacted] 11-15-2

SHOP STAMP	INSP STAMP	CUST STAMP
	MSS 11/15/02	

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

WELDER	PA X-RAY ACCEPT	PA X-RAY REJECT

WELD WIRE ACCEPTANCE	PENETRANT ACCEPT	PENETRANT REJECT

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

PCN	WELD WIRE LOT NUMBER

MR CD	LAB / LICALL	SRI NUMBER	NUMBER OF ATTACHMENTS	NUMBER OF NCSDs
3			1 2 3 4 5 6 7 8 9 10 Log	1 2 3 4 5 6 7 8 9 10

DOCUMENT CLOSURE DATA

DISP CODE	NUMBER OF ITEMS	TRANSFER TO DOCUMENT	PRODUCTION OPERATIONS CLOSURE ACCEPTANCE	BADGE	DATE
N M / E	1 2 3 4 5 6 7 8 9 10		[redacted]	[redacted]	11-15-02

QC SUPPLIER CLOSURE ACCEPTANCE	BADGE	DATE	CUSTOMER CLOSURE ACCEPTANCE	DATE
[redacted]	[redacted]	11/15/02	[redacted]	11/18/02

MAF/MMA 37-033 (11/95)

COPY 1

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062525	1	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

NASA SEMA: [redacted] 11/15/02

NASA Proj. Engr.: [redacted] 11/15/02

BLOCK 19 CONT'D:

REVISE TO READ 0012.

[redacted] 11/15/02

BLOCK 42 CONT. - ALL WORK DISPO'D PER THIS MRB NCD IS COMPLETE AND ACCEPTABLE. WITHHELD TAG DESTROYED.

PA [redacted] (MSS) 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] 11/16/02

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062525	2	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
2	80911041234-010	00000000780	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
BKDCODRC	SN	SI		Y / N		3741	0000	NCSD2-2	[redacted]	

INITIATED BY	PA	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/15/02	T / V / S		☐ VISUAL
VA[redacted]	[redacted]	DATE 30: 11-15-2	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 MS 20605 R4 W4 BLIND RIVETS DO NOT MEET STP 2002 CAPPING 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]		15NOV02	[redacted]		11/18/02

DISPOSITION DATA

☒ MRB 41 — DISPOSITION 42: SUBMIT TO ENG. FOR EVALUATION.

PA. [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 Ø	1 2 3 4 5 6 7 8 9 10

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

COPY 1

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1.	ITEM 2	PAGE 3
N062525	2	2

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

PA/MRB: [redacted] 11/15/02

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

NASA Proj. Engr.: [redacted] 11/15/02

BLOCK 19 CONT'D:

REVISE TO READ 0012.

[redacted] 11/15/02

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

PA [redacted] SSW 11/15/02

MAF/MMA 37-028 (12/93)

COPY 1

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
NO62525	3	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
3	809110412345-019	0000000840	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 END 18	DEPT LBL 19	SCC 20	WELD CODE 21	WELD GRD 22
BKDGQDRCSN		SE		Y / N		3741	0060	NCSD	3-2	

INITIATED BY	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	11/15/02	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]		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 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 & CORRECTIVE ACTION ACCEPTANCE	DATE 39	PA OF CAUSE & CORRECTIVE ACTION REVIEW	DATE 40
SC	[redacted]	11/18/02	[redacted]	11/18/02

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 Ø	(1) 2 3 4 5 6 7 8 9 10 1

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

COPY 1

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N.0.6.2.5.2.5	3	2

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

PA/MRB: [redacted] 11/15/02

NASA SEMA: [redacted] 11/15/02

NASA Proj. Engr: [redacted] 11/15/02

BLOCK 19 CONT'D:

REVISE TO READ 0012

[redacted] 11/15/02

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

PA [redacted] MSS 11/15/02

MAF/MMA 37-028 (12/93)

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062525	4	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
A	809.1104.1234-020	NOTED	3	3	EA

PART NAME 7	PI NUMBER 8	STEP NO 9	SHEET / ZONE / VIEW 10	CA TYPE 11
BRACKET, ISOLATOR ASSEMBLY				I / 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
BKDG	DRC	SN	SI	Y / N		5741	0000	NCSD4-2		

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/15/02	T / V / S		☐ VISUAL

V	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 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]		11/15/02	[redacted]		11/18/02

DISPOSITION DATA

☒ MRB 41 DISPOSITION 42

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	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

BLOCK 3 CONT'D:

S/N 00000000 916

S/N 00000000 917

S/N 00000000 918

RELIABILITY ASSURANCE [redacted] 11/15/02

BLOCK 42 CONT'D.

SUBMIT TO ENGR. FOR EVALUATION.

[redacted] 11-15-2

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)

COPY 1

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
ND625 25	4	2

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

PA/MRB: [redacted] 11/15/02

NASA SEMA: [redacted] 11/15/02

NASA Proj. Engr: [redacted] 11/15/02

BLOCK 19 CONT'D:

REVISE TO READ 0012.

[redacted] 11/15/02

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

PA [redacted] MSS 11/15/02

MAF/MMA 37-028 (12/93)

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062525	5	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
5	8091104 1234-029	0000000 1080	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
BKDCQDRC	SN	SI		Y / (N)		3741	~~0000~~	NCSD	5-2	

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

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	CAUSE & CORRECTIVE ACTION REVIEW	BADGE	DATE 40
SC	[redacted]		NOV 02	[redacted]	[redacted]	11/18/02

DISPOSITION DATA

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

PA [redacted] 11-15-2

SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	[redacted] SW 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 Ø	(1) 2 3 4 5 6 7 8 9 10

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

COPY 1

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
ND62525	5	2

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION

ENG MRB [redacted] 11/15/02

PA/MRB: [redacted] 11/15/02

NASA SEMA: [redacted] 11/15/02

NASA Proj. Engr: [redacted] 11/15/02

BLOCK 19 CONT'D:

REVISE TO READ 0012.

[redacted] 11/15/02

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

PA [redacted] SSW 11/15/02

MAF/MMA 37-028 (12/93)

COPY 1

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062525	6	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
6	809-1041234-030	0000001140	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
BKDGQDRCSN		SE		Y / (N)		3741	8000	NCSD6-2		

INI[redacted]	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
		11/15/02	T / V / S		☐ VISUAL

VALID[redacted]	BADGE	DATE 30	MATERIAL THICKNESS 26		DEFECT LOC 27	☐ X-RAY
		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 MS20605 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 & CORRECTIVE ACTION ACCEPTANCE [redacted]	DATE 39	CAUSE & CORRECTIVE ACTION REVIEW [redacted]	DATE 40
S C		11/19/02		11/18/02

DISPOSITION DATA

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

[redacted] 11-15-2

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 Ø	(1) 2 3 4 5 6 7 8 9 10 1

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

COPY 1

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N.D.62525	6	2

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

PA/MRB: [redacted] 11/15/02

NASA SEMA: [redacted] 11/15/02

NASA Proj. Engr.: [redacted] 11/15/02

BLOCK 19 CONT'D:

REVISE TO READ 0012.

[redacted] 11/15/02

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

MSS

PA [redacted] 11/15/02

MAF/MMA 37-028 (12/93)

COPY 1

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062525	7	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
7	809-1104-1234-039	00000001209	1	1	EA

PART NAME 7	P/ 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 CAD 22
BK DC OD RC SN		SE		Y / (N)		3741	0000-MK-SD	7-2		

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/15/02	T / V / S		☐ VISUAL
VALIDATED BY [redacted]	BADGE [redacted]	DATE 30: 11-15-2	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 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	BADGE	DATE 39	PART CAUSE & CORRECTIVE ACTION REVIEW	DATE 40
SC	[redacted]	11/18/02	[redacted]	11/18/02

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 Ø	(1) 2 3 4 5 6 7 8 9 10 1

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N062525	7	2

4

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

PA/MRB: [redacted] 11/15/02

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

NASA Proj. Engr: [redacted] 11/15/02

BLOCK 19 CONT'D

REVISE TO READ 0012

[redacted] 11/15/02

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

PA [redacted] MSS 11/15/02

MAF/MMA 37-028 (12/93)

COPY 1

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062525	8	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER	TRACEABILITY NUMBER 2	LOT QTY 4	QTY REJ 5	UOM 6
8	8091104 1234-040	0000000 1260	1	1	EA

PART NAME	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
BKDC QUAC	SN	SI		Y (N)		3741	6000	NCSD	8-2	

INITIATED BY	BADGE	DATE 29	WELD TYPE 23	ORIG WELD TOOL 24	DETECT METHOD 25
[redacted]	[redacted]	11/15/02	T / V / S		☐ VISUAL
[redacted]	[redacted]	DATE 30: 11-15-2	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 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	P/A CAUSE & CORRECTIVE ACTION REVIEW	BADGE	DATE 40
SC	[redacted]		11/18/02	[redacted]		11/18/02

DISPOSITION DATA

☒ MRB 41	DISPOSITION 42	SHOP STAMP 43	INSP STAMP 44	CUST STAMP 45
	SUBMIT TO ENG. FOR EVALUATION.		MSS	
	[redacted] 11-15-2		11/16/02	

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 1

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

COPY 1

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N.0.6.2.5.2.5	8	2

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

PA/MRB: [redacted] 11/15/02

NASA SEMA: [redacted] 11/15/02

NASA Proj. Engr.: [redacted] 11/15/02

BLOCK 19 CONT'D:

REVISE TO READ 0012

[redacted] 11/15/02

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

PA [redacted] SSW 11/15/02

MAF/MMA 37-028 (12/93)

COPY 1

NCID NONCONFORMANCE ITEM DATA

NCD NUMBER A1	ITEM A2	PAGE A3
N062525	9	1

ITEM INITIATION DATA

ITEM 1	PART NUMBER 2	TRACEABILITY NUMBER 3	LOT QTY 4	QTY REJ 5	UOM 6
9	80911041234-049	00000001320	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 GRP 22
BKDCODRC	SN	SI		Y		3741	0000	NCSD 9-2		

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

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	DATE 40
SC	[redacted]	[redacted]	5 NOV 02	[redacted]	11/18/02

DISPOSITION DATA

☒ MRB 41 DISPOSITION 42

SUBMIT TO ENG. FOR EVALUATION.

[redacted]

PA [redacted] 11-15-2

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

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 1

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

COPY 1

NCSD NONCONFORMANCE SUPPLEMENTAL DATA

NCD NUMBER 1	ITEM 2	PAGE 3
N10625,25	9	2

BLOCK 42 CONTINUED

SEE ATTACHMENT 1-1 FOR ENGINEERING DISPOSITION.

ENG MRB [redacted] 11/15/02

PA/MRB: [redacted] 11/15/02

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

NASA Proj. Engr: [redacted] 11/15/02

BLOCK 19 CONT'D:

REVISE TO READ 0012

[redacted] 11/15/02

BLOCK 42 CONT. - THIS MRB NCD IS COMPLETE AND ACCEPTABLE. WITHHELD TAG HAS BEEN DESTROYED.

PA [redacted] SSW 11/15/02

MAF/MMA 37-028 (12/93)