# Special Process: Welding System Assessment

Version 1, 3/2010

### Section 6 - Job Audit

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6.7	6.6		6.5	6.4	6.3	6.2	6.1	Question #	
previous operation and has the quality of parts been verified?	Calibrated per established frequencies?  If applicable, is there an inter-locking of the	Are the meters and food back postula	If the weld cycle is interrupted, is the part controlled or contained until dispositioned by appropriate personnel?	line shut down?	Are over rides or resets logs maintained?	Has the logic been established to effectively identify and address process or equipment faults?	Has the welding operation identified the process control equipment necessary to monitor, control and provide feedback on all essential process variables as listed in the applicable Process Tables?	Job Audit Question	Job Identity: Customer: Shop Order Number: Part Number: Part Description: Base Metal Specifications: Filler Metal Specification (if required): Welding Process(es):
	3.3	51	2.7 5.1.4	<u></u> 	5.1.2	5.1	5.1 8 5.2	Related WSA Question #	100. 2960 1 1500 90320-01 1550 90320-01 1550 4387 1050 546 1045 577 705-6 679 91 10 10 10
						Shut Down STARA	Control Phin.	Customer or Internal Requirement	- MSSE From WM95 G& Z 3 29001 29001 29001 20-01 1855 21 406K 8057 20-01 1855
							wo. 29601	Job (Shop) Order or Reference Documentation Requirement	at 30/12.
	I what want to		Software	Softwarked	MAIN TENANCE			Actual Condition (Objective Evidence)	hodital Thath
≥ <u>~</u>	Pars		Poss		286	Pass	5567	Pass / Fail / N/A	1 •



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6.15 Is	6.14 ls	6.13 A	6.12 to	6.11	6.10 d	6.9 A	5.8 8	Question #	< n m n n 0 0 0 0
Is there a documented start-up and shut- down procedure?	Is there a documented change over procedure (filler material, fixtures)?	Are there documented welding procedures for each weld location and each process variable?	Is there traceability of all process and tooling changes?	Is there acceptable traceability (sequence/date coding)?	Have process variables been defined and developed by data and shown to be statistically capable?	Are high/low limit alarms established by actual data.	Are there secure backups of all programs and procedures (electronic preferred)?	Job Audit Question	Lob Identity: Customer: Shop Order Number: Part Number: Part Description: Base Metal Specifications: Filler Metal Specification (if required): Welding Process(es):
1.5 1.10 5.1.14	1.5 5.1.13 3.6	5.1.12 1.5 1.10	4.1 5.1.11 5.4	5.1.10 5.1.11 2.3 2.7	5.1.9	5.1.8 5.1.1	5.1.7	Related WSA Question #	MAGNA: M55 F.
	watersfring do fre	Data Sheet		·				Customer or Internal Requirement	1000 WMd5: 0
				:			,	Job (Shop) Order or Reference Documentation Requirement	340xF Oct 30/12
Mentenerce	Set up Venjocation	Process allowed	Set up Venfication	w. O. Tracioni	Capability PPA D	Software Control	Software	Actual Condition (Objective Evidence)	/a

Pass

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Pass / Fail / N/A

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Pass

Pass

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	6.20.2					6.20.1	6.20	6.19	6.18	6.17	6.16	Question #	
lest Method: Deflect jakeck ho	1		Specification: 20 mm V/	Test Frequency and Quantity:	Test Method: Thow Handy	Test Type: Weld hence	Are weld quality requirements clearly defined per customer specifications?	Are In-Process and Final Tests performed at established frequencies?	How does the organization handle changes to process control parameters after initial customer approval and how do you notify your customer?	Are there documented reaction plans with appropriate levels of containment to both out of control and out of tolerance process parameters and provide documented evidence that reaction plans are followed?	Are process control parameters monitored at established frequencies?	Job Audit Question	Job Identity: Customer: Shop Order Number: Part Number: Part Description: Base Metal Specifications: Filler Metal Specification (if required): Welding Process(es):
base notal				ture			5.6	5.5.0	1.6 5.4 1.22 1.16	5.3 1.21 5.6 1.8 2.7	5.2		MAGAA - MSS  W.O. 29601  90870-01 As  4387 LOCK POST  SAE 1045  ER 705-6  GMAN R
	Control Plan					Countrel Plan	Each part may have one or n Parts must meet each	Constrol Plan	Chang-Control	Control Rom Typio cess Typio cess Typio cess	well Procedure Data Sheet	Customer or Internal Requirement	ASM 4 32340 310 XF 6 80516
							Each part may have one or more requirements determined by the welding specification.  Parts must meet each requirement. List requirements below and validate.					Job (Shop) Order or Reference Documentation Requirement	R3 Oct 30/12
5000		`\	28 02 / CL 05	10 771	17 # 28 J J C CON	, I	ed by the welding specificate.	Section Opense	Process Changes not allowed without servew	In process Pass	at Parameters	Actual Condition (Objective Evidence)	
		Carr		2/2/	10.	100	ation.	Jel // pash	D AS	Pass	Pass	Pass / Fail / N/A	



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			ໃuestion #							
	Specification: Pull beautiful	Test Frequency and Quantity: (/) per Fr	Job Audit Question	Filler Metal Specification (if required): Welding Process(es):	Base Metal Specifications:	Part Description:	Part Number:	Shop Order Number:	Customer:	Job Identity:
	1 0	1) per Future Makilot	Related WSA Question #							
			Customer or Internal Requirement							
	Ket	)	Job (Shop) Order or Reference Documentation Requirement							Oct 30/12
some 1stance	Kefemod gramples	4 samples	Actual Condition (Objective Evidence)	. •	•	•	•	•	'!	ia.

Pass / Fail / N/A

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	Job Identity: Customer:			Oct 3012	2/12	
	Shop Order Number: Part Number:				• 1	
	Part Description:  Base Metal Specifications:					
	Filler Metal Specification (if required): Welding Process(es):					
ໃuestion #	Job Audit Question	Related WSA Question #	Customer or Internal Requirement	Job (Shop) Order or Reference Documentation	Actual Condition (Objective Evidence)	Pass Fail / N
6.20.3	Test Type: Wold Section		Control Man	1100	)	
	Test Method: Wild Section		ı		(L)41.1/3	1
	Test Frequency and Quantity () and for fixed	cu /shilf			(4) 1/2 (A)	0 0
	Specification: 3mm Min	7 /			3.49/3.20/3.41/3.29	13.20
6.20.4	Test Type:					
	Test Method:					
	Test Frequency and Quantity:					
	Specification:					

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