

August 31, 2009

US Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555-001

Mr. Juan Peralta Chief, Quality and Vendor Branch 1 Division of Construction Inspection and Operational Programs Office of New Reactors

Subject: "REPLY TO A NOTICE OF NONCONFORMANCE"

Nonconformance 99901356 / 2009-201-02

Dear Mr. Peralta,

I am writing in response to the **NOTICE OF NONCONFORMANCE # 99901356 / 2009-201-02** addressed to me in the NRC Inspection Report No. 9901356 / 2009-201.

In accordance with the instructions outlined within the subject Notice of Nonconformance, Flowserve Corporation, Raleigh, NC offers the following reply:

- 1. The reason for this nonconformance, as stated in the Flowserve Quality Problem Corrective Action Plan (QPCAP #516) issued during the NRC Inspection (see attached) and as a result of our review of the NRC Inspection Report Details paragraph 6.b where stated "In addition, the NRC inspectors noted that PIOP 36-40-10-14 does not provide adequate instructions to implement the requirements of section 15.1.4 of the QAM", the reasons rework instructions were not adequately specified and verified against the QAP, resulted from inadequate procedural instructions and training.
- 2. As stated in Flowserve QPCAP #516, the corrective steps that were taken at the time of the NRC Inspection were:
  - a. Training was provided to those people responsible for specifying work instructions; including the selection of welding procedures associated with weld repairs to be in accordance with those specified within the QAP (Quality Assurance Plan). This training was documented as evidenced on Training Record dated 7/07/2009 on subject QPCAP #516.

FLOWSERVE US INC. FLOW CONTROL DIVISION 1900 S SAUNDERS RALEIGH, NC 27603 USA Telephone 919 831 0525 Facsimile: 919 831 3369 www.flowserve.com

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- b. As a result of the review of NRC Inspection Report Details, it was deemed necessary to revise PIOP 36-40-10-14 to include specific instructions for responsible personnel to consult the applicable QAP for selection of applicable Drawings and Method Specifications including Welding Procedures. PIOP 36-40-10-15 was revised on 8/31/09 to include these instructions, and appropriate people were provided additional training in the revised PIOP instructions.
- c. A review of 2009 Rejection Tickets associated with weld repair was performed to determine if other weld repairs had been performed using welding procedures other than those specified within the applicable QAP, none were found. This review was documented and provided to the NRC Inspection Team at the time. (Attached)
- 3. The corrective steps that have been taken as described in this response and Flowserve QPCAP #516 together with the revision of PIOP 36-40-10-15 and the additional training of responsible personnel has been implemented and will avoid further noncompliances.
- 4. The corrective steps concerning Notice of Nonconformance 99901356 / 2009-201-02 have been completed and are effectively implemented as of August 31, 2009.

Respectfully Submitted,

Robert D. Barry

Manager, Quality Assurance

Flowserve US Inc Flow Control Division

Raleigh, NC 27603

#### Attachments:

Flowserve Quality Problem Corrective Action Plan No 516 and supporting objective evidence.

Flowserve PIOP 36-40-10-15 dated August 31, 2009, page 5 of 8 paragraph 3.1.2.1 and associated training record dated 8/31/09.



### 1900 South Saunders Street P.O. Box 1961 Raleigh, North Carolina 27603

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) Б:	July 7, 2009	
SIZE & FIGURE NO.:	1.0 800 SW	QUALITY PROBLEM
PART/VALVE NAME:	Body	CORRECTIVE ACTION PLAN
PART / VALVE NUMBER	041003899991200	
TRACEABILITY NO.:	N4668 / 20,23,27 REJECT TICKET NO.: 123	341 & 120445 RESPONSIBLE DEPT.: Met. Process
INITIATED BY: Todd McF	Kinney Assigned to: B. Carothers CODE	MATERIAL ANI REVIEW
PROBLEM (to be comple	eted by QA or responsible Department)	Not Required – Reject Ticket Attached
Reject Ticket 120445	was written and issued for a weld repair on some bodie	es being manufactured to the 99912 QAP. The basemetal
Welding repair proced	ure specified in the 99912 QAP was P1-323N LR but	the welding procedure listed on the Reject Ticket was for
	or was identified during the NRC Inspection on July 7 w Metallurgical Process Control.	7, 2009. Reject Ticket 123341 was written to disposition the
Part 21 evaluation require	ed Yes No Department Manager Signature:	8.2. Date: 7/7/09
ROOT CAUSE and PRO	POSED CORRECTIVE ACTION within 30 days, which is $ ilde{m{\mathcal{Y}}}_{i}$	17/09
Rework Inst	tructions were not adequa	ately ventuel against DAP
	w references PI-373N, LI	RIVERS & PI-32IN,IR
· )	, , , , , , , , , , , , , , , , , , ,	
	By:	Bate: 7/7/09
CORRECTIVE ACTION	will be completed by 7 10 09 (to be completed by responsit	ole Department):
Review QP	CAP with all personnel r	esponsible For developing
welding 1	nstructions, Review 21/ 20	009 Reject Tickets associated
with und	drames south a	AP recurrents 0 BG/
U.S. W.S.	By:	P ( 100 ) Date: 7 /8/100
REVIEW/TRAIN RESPO	NSIBLE INDIVIDUAL (If Applicable)	
Talular /	3 record and Kepe	of licket review stocked
	DA 11	1
Name of Responsible Inc		The state of the s
CONFIRMATION OF CO	RRECTIVE ACTION TAKEN to be verified by Q.A within to	days of completion date, which is 8,46/89 :
Trainin	ig record & Reject Tieket	review Verified - considered
SATI	sfactory.	<u>'</u>
		A
):RECTIVE ACTION I	REVIEWED BY: Mic Sales	ln RB Date 7-9-09
	Manager, Quality Assurance or Designee	



### TRAINING RECORD

Record No.:	
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1900 South Saunders Street Raleigh, NC 27603

Department : Met. Pro	ocess Control	Date : Due :	7/7/2009 7/10/2009	_
Subject : QPCAP 516 - We	elding Procedure verifica	ation between (	QAP and Reject Ticket i	nstructions
During the NRC Inspection, it was identified	ed that on Reject Ticket 1	20445 the weldi	ing procedure prescribed	was not listed in
the QAP for 99912. The welding procedu	re was listed as P1-321N	LR on the Reje	ct Ticket but the QAP onl	y contained a procedure
of P1-123N LR, P1-223N LR or P1-323N	LR for use. Reject Ticket	t 123341 was wi	ritten to disposition the ite	ms welded as Use-As-I
by Metallurgical Process Control after the	finding had been made.	It is very import	ant that the instructions p	rovided for rework
meet those prescribed in the applicable Q	AP's to avoid a potential	Quality Issue. A	Nways verify the QAP inst	tructions versus the
instructions written on the Reject Ticket p	rior to issuance.			
NAME			, O INITIAL / DA	ATE
Daniel Mann		Na	mil Mann	7-8-09
James Cobb		- <u>-</u>	James GoBI	3 7/8/09
Bernie Carothers		E	Payotto	7/3/09
		<del></del>		
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Length of Session :		Self	f Review	
	-7/1/	En. C	$\supset$	
Instructor:		Todd McKinn	by, QC Supervisor	

Reject Tilcket No         QAP No         Correct WPS USED           123027         90891         YES           123073         90891         YES           123085         48450         YES           123088         90891         YES           123095         90891         YES           123124         51244         YES           123127         52023         YES           123137         52023         YES           123141         52023         YES           123142         90891         YES           123143         52023         YES           123144         52023         YES           123147         52023         YES           123148         52023         YES           123241         52023         YES           123240         51917         YES           123208         90714         YES           123208         90714         YES           123208         90714         YES           123241         45515         YES           123245         99912         YES           123245         99912         YES           <	Dati come to take	CADAL	0 + MDC HCED
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123262       90714       YES         123269       52822       YES         123272       52822       YES         123277       51509       YES         123280       53312       YES         123286       99901       YES         123288       51835       YES         123298       52777       YES         123310       99913       YES         123401       50924       YES         123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         123465       90891       YES         120549       50202       YES         120551       47485       YES         120556       90714       YES         120557       90713       YES         120581       50796       YES         120590       99914       YES         120596       99914       YES         120596       99914       YES         120598       90713       YES	123260		
123269       52822       YES         123277       51509       YES         123280       53312       YES         123286       99901       YES         123288       51835       YES         123295       52777       YES         123298       52777       YES         123310       99913       YES         123401       50924       YES         123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120596       99914       YES         120598       90713       YES	123261	90713	
123272       52822       YES         123277       51509       YES         123280       53312       YES         123286       99901       YES         123288       51835       YES         123295       52777       YES         123298       52777       YES         123310       99913       YES         123401       50924       YES         123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         123465       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120596       99914       YES         120598       90713       YES	123262	90714	
123277       51509       YES         123280       53312       YES         123286       99901       YES         123288       51835       YES         123295       52777       YES         123298       52777       YES         123310       99913       YES         123401       50924       YES         123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         123465       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120592       50722       YES         120598       90713       YES	123269	52822	YES \
123280       53312       YES         123286       99901       YES         123288       51835       YES         123295       52777       YES         123298       52777       YES         123310       99913       YES         123401       50924       YES         123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         123465       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120592       50722       YES         120596       99914       YES         120598       90713       YES	123272	52822	YES
123286       99901       YES         123288       51835       YES         123295       52777       YES         123298       52777       YES         123310       99913       YES         123401       50924       YES         123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         123465       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120596       99914       YES         120598       90713       YES	123277	51509	YES
123288       51835       YES         123295       52777       YES         123298       52777       YES         123310       99913       YES         123401       50924       YES         123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         120549       50202       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120590       99914       YES         120591       99901       YES         120596       99914       YES         120598       90713       YES	123280	53312	YES
123295       52777       YES         123298       52777       YES         123310       99913       YES         123401       50924       YES         123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120590       99914       YES         120591       99901       YES         120596       99914       YES         120598       90713       YES	123286	99901	YES .
123298       52777       YES         123310       99913       YES         123401       50924       YES         123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120596       99914       YES         120598       90713       YES	123288	51835	YES
123310       99913       YES         123401       50924       YES         123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         123465       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120598       90713       YES	123295	52777	YES
123401       50924       YES         123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         123465       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120598       90713       YES	123298	52777	YES
123404       90891       YES         123417       90891       YES         123419       90891       YES         123443       90891       YES         123465       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120598       90713       YES	123310	99913	YES
123417       90891       YES         123419       90891       YES         123443       90891       YES         123465       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120598       90713       YES	123401	50924	YES
123419       90891       YES         123443       90891       YES         123465       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120598       90713       YES	123404	90891	YES
123443       90891       YES         123465       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120598       99713       YES	123417	90891	YES
123465       90891       YES         120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120598       90713       YES	123419	90891	YES
120549       50202       YES         120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120596       99914       YES         120598       90713       YES	123443	90891	YES
120551       47485       YES         120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120596       99914       YES         120598       90713       YES	123465	90891	YES
120558       50691       YES         120556       90714       YES         120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120596       99914       YES         120598       90713       YES	120549	50202	YES
120556       90714       YES         120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120596       99914       YES         120598       90713       YES	120551	47485	YES
120567       90713       YES         120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120596       99914       YES         120598       90713       YES	120558	50691	YES
120581       50796       YES         120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120596       99914       YES         120598       90713       YES	120556	90714	YES
120582       50796       YES         120590       99914       YES         120591       99901       YES         120592       50722       YES         120596       99914       YES         120598       90713       YES	•	90713	YES
120590 99914 YES 120591 99901 YES 120592 50722 YES 120596 99914 YES 120598 90713 YES	120581	50796	YES
120590 99914 YES 120591 99901 YES 120592 50722 YES 120596 99914 YES 120598 90713 YES	120582	50796	YES
120591 99901 YES 120592 50722 YES 120596 99914 YES 120598 90713 YES			
120592 50722 YES 120596 99914 YES 120598 90713 YES			
120596 99914 YES 120598 90713 YES		50722	
120598 90713 YES			

Hothy 19/09

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Reject Tiicket No QAP No Correct WPS USED
                  90892 YES
        121039
        121045
                  50420 YES
        121061
                  49882 YES
                  50224 YES
        121062
                  50694 YES
        121063
        121065
                  90714 YES
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                  50488 YES
                  51370 YES
        121070
        121071
                  51355 YES
        121072
                  50294 YES
        121076
                  50294 YES
        121077
                  49589 YES
                  49882 YES
        121078
        121085
                  50488 YES
        121089
                  51370 YES
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                  52202 YES
                  90713 YES
        121621
        121626
                  50710 YES
        121644
                  90713 YES
                  90713 YES
        121645
        121646
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        121647
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                  90714 YES
                  90714 YES
        121693
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        121900
                  48088 YES
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                  90892 YES
        121905
                  90892 YES
        121941
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                  78312 YES
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        121953
        121960
                  91111 YES
        121966
                  52447 YES
                  52447 YES
        121967
        121982
                  49579 YES
        121991
                  90713 YES
        120224
                  49245 YES
        120227
                  90891 YES
        120230
                  90891 YES
                  90891 YES
        120231
                  51123 YES
        120244
        120272
                  90891 YES
                  90891 YES
         120273
        120274
                  90891 YES
         120276
                  90891 YES
         120277
                  51677 YES
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James CoBB 7-9-09

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123706 52924-01 Yes
123715 52924-01 Yes
123717 52924-01 Yes
123753 78322-01 Yes
123767 52924-01 Yes
123980 53475-01 Yes
122811
         90812 Yes
122826
         90891 Yes
122858
         90713 Yes
122859
         90714 Yes
122705
         48505 Yes
122718
         49431 Yes
122726
         51272 Yes
122735
         49431 Yes
122742
         90891 Yes
122760
         50924 Yes
122770 90891-03 Yes
122915 90891-03 Yes
122916 90891-03 Yes
         90891 Yes
122939
122947
         90891 Yes
122994
         51272 Yes
122003
         90713 Yes
122004
         90713 Yes
         90714 Yes
122005
         90714 Yes
122006
122013
         90713 Yes
122014
         90713 Yes
122016
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122017
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         50202 Yes
122020
         90713 Yes
122033
         99901 Yes
122036
122037
         33192 Yes
122040
         50202 Yes
122044
         50713 Yes
122052
         39915 Yes
122053
         50224 Yes
122060
         49180 Yes
122065
         99901 Yes
122074
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122077
         90713 Yes
122078
         90713 Yes
122079
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122083
         50270 Yes
122094
         50836 Yes
122101 40285-01 Yes
122117
         50294 Yes
         90714 Yes
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122132 122172

91111 Yes

Dani) W Man 7-9-09

122348	90891 Yes
122500	90714 Yes
122503	99901-00 Yes
122509	99901 Yes
122510	99901 Yes
122511	99901 Yes
122527	52505 Yes
122535	90891 Yes
122536	90891 Yes
122537	90891 Yes
122538	90891 Yes
122544	99913 Yes
122559	42580 Yes
122565	90714 Yes
122567	51240 Yes
122579	39915 Yes
122580	90713 Yes
122581	90713 Yes
122582	90714 Yes
122588	99901 Yes
122592	51480 Yes
122597	90714 Yes
122598	90714 Yes
122599	90713 Yes
122664	51272 Yes
122602	40424 Vaa

122598 90714 Yes 122599 90713 Yes 122664 51272 Yes 122692 49431 Yes War 7-9-09



Procedure No.	36-40-10-15	
Effective Date	7/8/70	
Revision Date	08/31/09	

TITLE:

NONCONFORMING MATERIAL CONTROL - REJECTION PROCEDURE, MATERIAL REVIEW BOARD INVOLVEMENT

# PLANT INTERNAL OPERATING PROCEDURE

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Verify that the revision of this printed document matches the current revision of the electronic master before use.

Page 5 of 8

- 3.1.2.1 If the decision is to rework, an Inspector will consult with Manufacturing Engineering and/or Metallurgical Process Control to determine necessary drawings, manufacturing specifications, welding procedures, operations, sequences and departments involved for rework of the nonconforming material. The QAPs shall be consulted for the selection of applicable manufacturing specifications and drawings as required.
- 3.1.2.2 For a 'use-as-is' disposition there must be a written Engineering justification given on the Reject Ticket (Exhibit I).
- In-process material must have an accompanying job order packet containing a Reject Ticket, Manufacturing Route Card and the product drawing. <a href="Exception">Exception</a>: Manufacturing Route Cards are not required for parts that are rejected in the following areas; Receiving/Receiving Inspection, Stores, Assembly, Test, or Shipping since Route Cards for individual parts rejected in these areas are the responsibility of the Supervisor of the area in which the rework begins. Drawings are not required when rework instruction are explicit, such as: Remove all burrs.
- 3.1.2.4 For Code Items ("N"/"U"/"PP"/"NR"/"R") the Reject Ticket will be presented to the Authorized Nuclear Inspector/Authorized Inspector for his review, concurrence, and assignment of any hold or witness points.



## TRAINING RECORD

Department:	Metallurgical Process C	Control	Date:	08/31/20	009
Subject:	Revision to PIOP 36-40-10-15 date	d 08/31/09 – Pag	je 5 of 8 par	agraph 3.1.2	.1
	Added clarification to consult QAP	for selection of a	oplicable mai	nufacturing	
	Specifications and drawings includi	ng welding proce	dures.		
<u>!</u>	Print Name	$\Omega$	Initial a	nd Date	
Be	rnie Carothers	Bara	al Ca	enth	78/3/
	James Cobb	da	mes Co	BB	8/31/
	Daniel Mann	(h)	11/1/20	2000	8-31-0
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### TRAINING RECORD

Record No.:	

1900 South Saunders Street Raleigh, NC 27603

Department :	INSPECTION	Date :	8/31/2009 8/31/2009
Subject :	PIOP 36-40-10-15 - \	Writing rework instruction	ns after checking QAP
During the NRC Inspection a n	on-conformance was found	in relation to a weld repair t	being performed with a different procedure
than what was listed in QAP 99	9912. It is very important that	ıt anytime we issue rework	instructions that we use the QAP, associated
			10-10-14 has been revised to address this in
paragraph 3.1.2.1. This proce	dure will be issued in the cor	ning days and everyone ne	eeds to be familiar with the contents. Paragraph
			ufacturing Engineering and/or Metallurgical
Process Control to determine i	necessary drawings, manufa	cturing specifications, weld	d procedures, operations, sequences nad
departments involved for rewo	rk of the non-conforming ma	terial. The applicable QAP	P shall be consulted for the selection of
apllicable manufacturing speci			·
NAME			INITIAL / DATE
Samuel Encarn	acion		5E 8-31-09
Mike Robers	on	M	N 6/31/09
Donnie Harp	er		H 8/31/09
.— Jeny Fadoi		W/A TO	of Epilon
Jason Thomp	son	_51	8/31/09
David Craddo	ock	$\mathcal{D}^{k}$	KC 8-31-09
Mary Jo Hedgi	beth	nish	8131/09
Scott Rehl			£ 8/31/00g
James Vaca	nti		E 131/09:
Patricia Mille	er	FM	8-31-09
Karen Hay	1		KOH 8-31-09
LaTisha Willia	ams	(de	N 8.31.00
Donald Rab	ıy	09	R 8/31/09

Length of Session : Self-Review

Instructor :

Todd McKinney - QC Supervisor