EIO RIFID	Number: RFD-14-026 (EIO RFD #110806-1P dated November 8 th , 2006)		RFD Description: Remaining B Castings (B2 thru B6) Thin Wall Condition
Initiator: Peter Dj	jordjevich	Organ	ization: Energy Industries of Ohio
List of Impacted I Drawing wall thick Coil Winding Forn	kness dimensions sho	own on	NCSX drawing: SE141-115 (Type-B Modular
	-		of stress regions. Per previous agreement on 2/7/2006)
-	-		or: Drawing wall thickness specifications shown ar Coil Winding Form)
Allow thin wall co	f the Deviation Requivalent on B castings	, which	h was discovered on casting B1.
•	ional deviation 1.5" +		
-			lance of B castings range 1.3"-1.4" wall after
Attachments: (1) CAR 1538 for	B-1 casting.		
Initiator Signatur	e: <u>Peter A Djordjev</u> EIO QA	vich	Date: <u>11/08/06</u>

NCSX RFD Part III	Number: RFD-14-02 RFD #110806-1P dat November 8 th , 2006)		RFD Description: Remaining B Castings (B2 thru B6) Thin Wall Condition		
RLM(s):	110101111111111111111111111111111111111	Organiza	ation:		
		Organization: Design: ORNL			
Design: Brad Nelson		0			
Manufacturing: Larry Dudek		Manufacturing: PPPL			
Impact on Interfaces with Other WBS Elements/Items: (If none, so state)					
Design RLM Recommendations:		Manufacturing RLM Rcommendations:			
Additional remarks: Deviation Request is modified to state dimensions as 1.5" +0 .25"/-0 .20" max (vs0.29" max since only B-1 casting (addressed by CAR 1538) has the 1.21" dimension.					
Should the impacted drawings be formally revised or should the "stamp" process outlined in NCSX Procedure PROC-007 be utilized and should the specification (or other documents) be updated?					
No, a formal revision required to the drawing or specification is required − THIS CHANGE WILL BE INCORPORATED WITH CHANGES BEING PROCESSED FOR ECN-5185.					
☐ "Stamp" process outlined in PROC-007 is authorized.					
☐ If the change is substantial, a revision to the impacted drawings will be required after the third RFD stamp marking a substantial revision is placed on the drawing.					
☐ This change is NOT substantial and no update to the drawing will ever be required => in this case the "3" RFD stamp process does NOT apply.					
Does this Change Impact Material Already Procured or Parts/Assemblies Already Assembled/Manufactured using this Material: \boxtimes Yes \square No					
If "Yes", what is the recommended disposition of this material/part/assembly and what is the impact? B2 through B6 castings will be accepted if within the stated dimensional tolerance band of 1.5" ± 0.25 "/ ± 0.20 "					
Design RLM Signature:					
Manufacturing RLM Signature:					
Project Disposition:					
Approved. No ECP required. NCSX Systems Engineering Support Manager					
Approved. ECP - assigned and processed.					
☐ Not Approved. Reason(s) for disapproval:					

NCSX Corrective Action Resolution Response

CA # 1538

Date: Feb. 6, 2006

NCSX Response: This CA addresses 7 areas on B1 which deviates from the model dimensions as detailed in the attached. NCSX agrees with EIO's planned action plan, as summarized below. Other than area 1, NCSX leaves the decision about the necessity of pattern changes up to EIO.

Area 1: Areas of the flange are outside of tolerance range. EIO proposes to add stock in low areas and grind high areas to bring into tolerance, as well as to add stock to cre box to prevent reoccurance. NCSX concurs- the casting stock addition should be handled as a weld repair.

Area 2: Opposite of area 1 but not related has excess stock. EIO will remove excess during processing. NCSX concurs.

Area 3: loss of machine stock ranging from 3/8-9/16". EIO feels that since 1" of machine stock was planned, sufficient remains. This is an EIO decision, but it appears reasonable to NCSX.

Area 4 is a thin shell wall condition similar to A1. NCSX reviewed the details and concurs with EIO's recommendation to use as is. This will be acceptable for future B's and NCSX will submit a RFD.

Area 5: Parts of the wing area interface may be high and it is not certain if other areas are out of tolerance. EIO will get better data during layout scans and may need to bring some areas into tolerances. NCR's may be needed if all areas are not brought into compliance.

Area 6: wing interface appears to be high, EIO plans to remove metal as required. NCSX concurs with this plan.

Area 7: wing interface appears to be high, but details need to be clarified in subsequent scans; EIO plans to remove metal as required. NCSX concurs with this plan.

Approved by:

Phil Dipatry signed by Phil Hectenicals DN CN + Phil Hectenicals C = 10 C = Phil Phil Draw DN + Phil Hectenicals C = 10 C = Phil Phil Draw DN + Phil Draw DN

Tech. Rep.

Brad Digitally signed by Brad Note D



Carondelet Division

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1538

Corrective Action
Carondelet Division
Corrective Action Type NCR
Date 1-13-06 Revised 1-26-06
CA Originator C. Ruud
Applies to: B-1 Coil

Description of Defect / Non-Conformance

Scan performed by 3D Scanco indicated that the coil deviates from the model in some areas.

Root Cause

Detailed analysis has been performed. See report below.

Corrective Action

Addressed in each area below.

Verification of Corrective Action

A scan will be performed with our equipment to verify dimesions.

Preventive Action

Pending.

Verification Of Preventative Action

Pending

Estimated Completion Date

Prior to shipment of B-1.

Actual Completion Date

Signed: C. Ruud

CC: B. Craig, J. Edwards, E.J. Kubick, J. Markham, R. Broman