

<i>NCSX RFD</i> <i>Part I</i>	Number: 14-016	RFD Description: Bearing Plate Material Change
Initiator: Nancy Horton/Phil Heitzenroeder		Organization: EIO/PPPL
List of Impacted Documents: ( <i>Specification, MIT/QA Plan, SOW, drawing, etc.</i> ): SE141-137-R2, SE141-138-R2, SE141-139-R1, SE141-140-R1, SE141-141-R1, & SE141-142-R1		
Cost Impact: ( <i>If none, so state</i> ): Approximately \$35K cost increase to obtain Stelalloy plates for bearing plates.		
Schedule Impact: ( <i>If none, so state</i> ): NONE		
Quality Impact: ( <i>If none, so state</i> ): Improved permeability will result in lower field errors.		
State Requirement Deviation is Requested For: ( <i>Specification, MIT/QA Plan, SOW, drawing, etc.</i> ): Change bearing plate material from 316 Stainless Steel to Stelalloy of castings C4 through C6, all A castings (A1-A6), and all B castings (B1-B6).		
<p>Full Description of the Deviation Requested: (<i>Use continuation pages, e-mails, letter, sketches, etc. as needed and include amplifying information as appropriate to support deviation request.</i>)</p> <p>In an e-mail Larry Sutton to Nancy Horton (dated March 22, 2006, “Use of Stelalloy Bearing Plates”) – copy attached, PPPL agreed to change the bearing plate material from 316 Stainless Steel to Stelally for modular coil winding forms C4 through C6, all of the type A winding forms, and all the type B winding forms. The reason for this change is to improve the magnetic permeability.</p> <p>PPPL recognized that it might not be possible for EIO/MTM to incorporate these changes immediately into the next 2-3 winding forms, but that EIO/MTM would identify those castings shipped with 316 Stainless Steel bearing plates, would initiate NCRs for those so shipped, and mark the bearing plates of 316 Stainless Steel to facilitate PPPL identifying and replacing these plates.</p>		
Attachments: E-mail Larry Sutton to Nancy Horton dated March 22, 2006, “Subcontract S—5242_& - Use of Stelalloy Bearing Plates”		
Initiator Signature: <u>Nancy Horton/Phil Heitzenroeder</u>		

From: Larry L. Sutton  
Sent: Wednesday, March 22, 2006 5:58 PM  
To: 'NKHFlowen@aol.com'  
Cc: Phil Heitzenroeder; royjratc-aol-com-offsite; Frank A. Malinowski  
Subject: Subcontract S005242-F - Use of Stellalloy Bearing Plates

Nancy:

Phil directed I dispatch to you the following information.

"This is to confirm the telephone conversation between Nancy Horton, Phil Heitzenroeder, and Larry Sutton on 3/17 and a phone conversation with Phil on 3/22. NCSX is changing the material for the bearing plates to Stellalloy for modular coil winding forms C4-C5, A1-A6, and B1-B6. We realize that implementing this change will not be possible for the next 2-3 winding forms. For those winding forms where the Stellalloy bearing plates are not available at shipment, we would ask that they be shipped with the 316 stainless steel bearing plates currently on hand which have high magnetic permeability. NCR's should be issued to document those shipped with the high permeability bearing plates. These will be replaced with Stellalloy bearing plates when the studs and nuts are replaced with the A286 versions at PPPL. MTM kindly agreed in a telephone conversation this morning which involved Roy to put paint dots on the hardware and bearing plates which will need to be replaced at PPPL."

Regards,

Larry

<i>NCSX RFD</i> <i>Part III</i>	Number: 14-016	RFD Description: Bearing Plate Material Change
RLM: Brad Nelson		Organization: ORNL
Impact on Interfaces with Other WBS Elements/Items: (If none, so state): NONE		
<p><b>RLM Recommendation:</b></p> <p><input checked="" type="checkbox"/> Approve   <input type="checkbox"/> Do Not Approve</p> <p><b>Additional remarks:</b></p> <p>ECN-5105 being prepared to document change in bearing plate material for all winding forms following C3.</p> <p>Does this Change Impact Material Already Procured or Parts/Assemblies Already Assembled/Manufactured using this Material: <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No</p> <p>If “Yes”, what is the recommended disposition of this material/part/assembly? Accept C1-C3 winding forms “as is.” After analysis of bearing plates of C1, C2, &amp; C3 winding forms, it was determined that the field errors from these first three already have on-site were acceptably small. MTM will provide Stelalloy bearing plates replacements for those castings sent with SS316 bearing plates (e.i., next 2-3 winding forms).</p>		
RLM Signature: _____		
<p><b>Project Disposition:</b></p> <p><input type="checkbox"/> Approved. No ECP required.</p> <p><input checked="" type="checkbox"/> Approved. ECP will be assigned and processed within 30 days.</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">NCSX Systems Engineering Support Manager</p> <p><input type="checkbox"/> Not Approved. Reason(s) for disapproval:</p>		

