

**PPPL ENGINEERING CHANGE NOTICE (ECN) ECN # 5059R3**

<b>COGNIZANT INDIVIDUAL:</b>	D. Williamson
<b>ECN TITLE:</b>	<b>MCWF Type-A and –B General Revision incl Bearing Plates</b>
<b>ASSOCIATED ECP:</b>	None
<b>CC/WP/Job:</b>	<b>9450-1***-1403</b>
<b>AREA OR PROJECT:</b>	<b>NCSX</b>

LIMITATION OF SCOPE - NOTE: A Work Planning Form is NOT required if the total change to be accomplished (ENG-032):

- Is not large or complex or does not represent a new installation into a usable space
- Does not have a significant ES&H impact
- Does not involve tritium or other radioactive contaminated or activated equipment
- Does not impact multiple projects, systems, or groups

OR does not change the scope or intent of the original design.

Responsible Line Manager CONCURRENCE: \_\_\_\_\_  
 (Signature indicates that no Work Planning form is required.)

If non-concurrence or associated with a work planning form, enter the WP Number:

<b>DRAWING(S) AFFECTED NUMBER:</b>	<b>NEW Revision</b>	<b>TITLE</b>
SE141-101	3	Mod Coil Winding Form Asm Type-A
SE141-102	3	Mod Coil Winding Form Asm Type-B
SE141-048	2	Poloidal Break Shim Assembly Type-A
SE141-058	2	Poloidal Break Shim Assembly Type-B
SE141-114	6	Production Winding Form Type-A
SE141-115	6	Production Winding Form Type-B
SE141-137	2	MCWF Poloidal Break Bearing Plate Type-C
SE141-138	2	MCWF Poloidal Break Bearing Plate Type-C
SE141-139	0	MCWF Poloidal Break Bearing Plate Type-B
SE141-140	0	MCWF Poloidal Break Bearing Plate Type-B
SE141-141	0	MCWF Poloidal Break Bearing Plate Type-A
SE141-142	0	MCWF Poloidal Break Bearing Plate Type-A

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**DESCRIPTION OF CHANGE:** (State Drawing No., Zone/Group, or List Attachments)

The purpose of this revision is to incorporate changes made to Type-C after C1 delivery into the Type-A and -B drawings:

- SE141-101, -102 – replaced washer with bearing plates in pol break assembly, revised note #10 regarding thread lubricant, added note #15 regarding bolt torque requirements
- SE141-048, -058 – added 0.060” – 0.090” edge chamfer.
- SE141-114, -115 – changed sph seat size tolerance, added edge chamfer, added four additional cooling holes , consistent with changes made to Type-C winding form in ECN-5026, Items #5,6, and 9.
- SE141-137, -138 – new drawings which describe Type-B bearing plate details. And deleted note referring to magnetic permeability (ECN-5059R3 change).
- SE141-139, -140 – new drawings which describe Type-B bearing plate details.
- SE141-141, -142 – new drawings which describe Type-A bearing plate details.

**REASON FOR CHANGE:**

SE141-101, -102 – revised to show bearing plates in poloidal break assembly and additional fastener notes

- SE141-048, -058 revised to reflect chamfer requirements for Type A and Type B castings similar to that for the Type C castings (SE141-078).
- SE141-114, -115 revised to make identical changes to cooling holes and tolerances as was done for Type C (SE141-116).
- SE141-137, -138 revised to delete the note relative to the magnetic permeability. This requirement be addressed in the CSPEC and is currently approved to 1.03  $\mu$  in RFD-14-011. In addition, drawings revised to show the bearing plate details for the Type C4 through C6 castings (ECN-5059R3 change).
- SE141-139 thru -142 created to show the bearing plate details for the Type B and A castings, respectively.

**ENGINEERING CHANGE PROPOSAL:** NA                      **DATE:** 4/20/2006 (Rev 3)

**COGNIZANT INDIVIDUAL MAKING THE CHANGE:**

**RESONSIBLE LINE MANAGER:**

**RLM Comments:** This Rev 3 ECN will NOT be immediately incorporated. Rather a stamp will be placed on this drawing as Rev 2-a to drawings SE141-137 and SE141-138, to indicate that this ECN is outstanding.