

PPPL ENGINEERING CHANGE NOTICE (ECN) ECN # 5059R2

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

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:

DRAWING(S) AFFECTED NUMBER:	NEW Revision	TITLE
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	1	MCWF Poloidal Break Bearing Plate Type-C
SE141-138	1	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 – deleted note referring to magnetic permeability.
- 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 μ in RFD-14-011.
- SE141-139 thru -142 created to show the bearing plate details for the Type B and A castings, respectively.

ENGINEERING CHANGE PROPOSAL: NA **DATE:** 2/7/2006

COGNIZANT INDIVIDUAL MAKING THE CHANGE:

RESONSIBLE LINE MANAGER: