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**Customer: ENERGY INDUSTRIES OF OHIO**

Contact: NANCY HORTON  
E-Mail: NKHFlowen@aol.com

Telephone: 216-496-2314  
Fax: 216-328-2001

**Part: SE141-116 / MODULAR COIL WINDING FORM TYPE**

Drawing ID: SE141-103                      Revision: 3  
W/O Links: 1-Type:W: 65707/6.0 Sub: 0

Customer P.O.: S005242-F/Ln:6  
Serial No./Qty: C6

Reported By: MIKE GRIFFITH  
E-Mail: mGriffith@MajorTool.com

Telephone: 317-636-6433  
Fax: 317-634-9420

Problem: See attachment for findings during visual review of casting.

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**Proposed Disposition:**

MTM proposes to accept deviations as is based on previous acceptance of similar conditions.

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Number of additional pages: 10 page attachment

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**Customer Disposition:**     Use As Is     Rework     Repair     Scrap     Replace

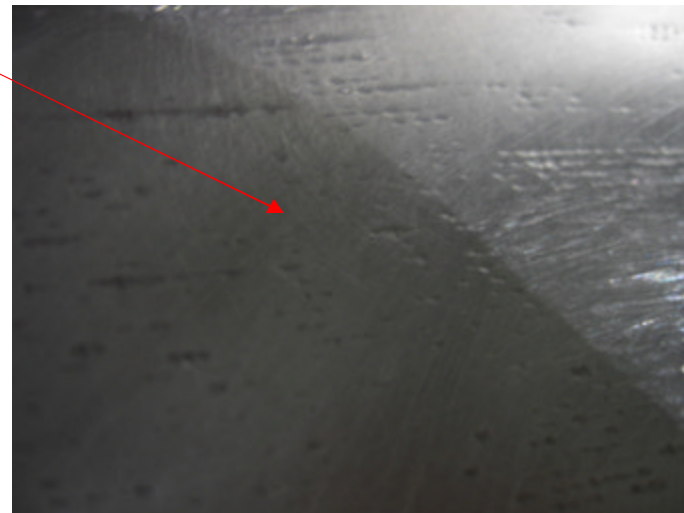
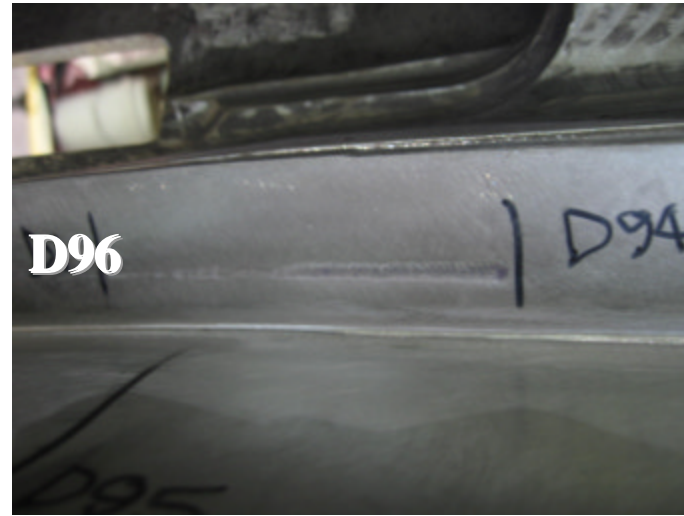
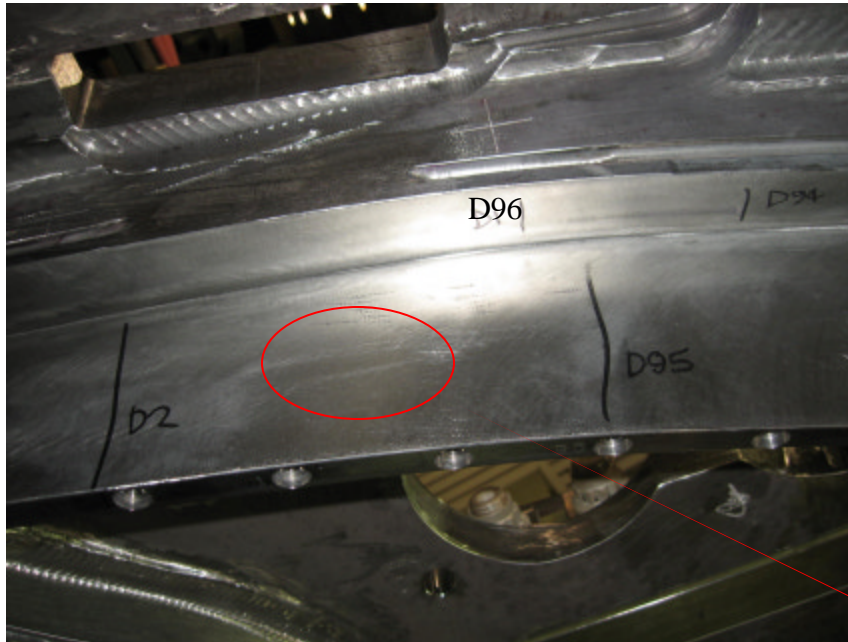
These findings were reviewed by J. Chrzanowski. During the initial review, he requested that the overcast adjacent to the poloidal break be ground flush to the surface to eliminate a pocket to trap impurities which might compromise the electrical integrity of the joint so this would not have to be addressed at PPPL. This has been done, and is shown in the two slides inserted after pg. 9. All others were deemed to be minor and acceptable as shown.

Accepted by:

Tech. Rep.

RLM

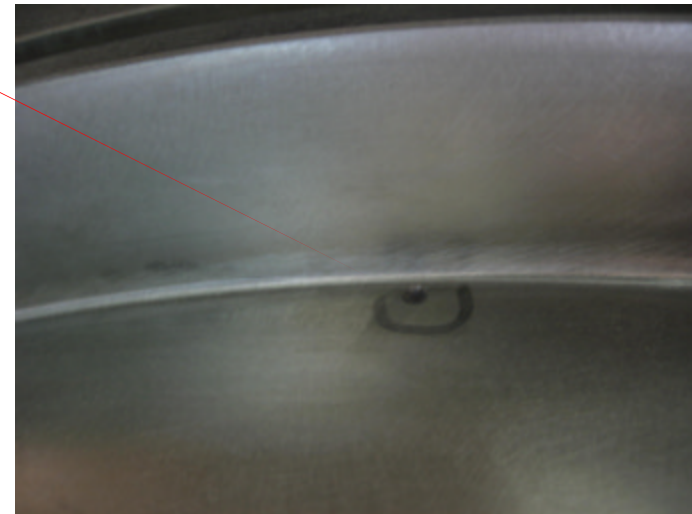
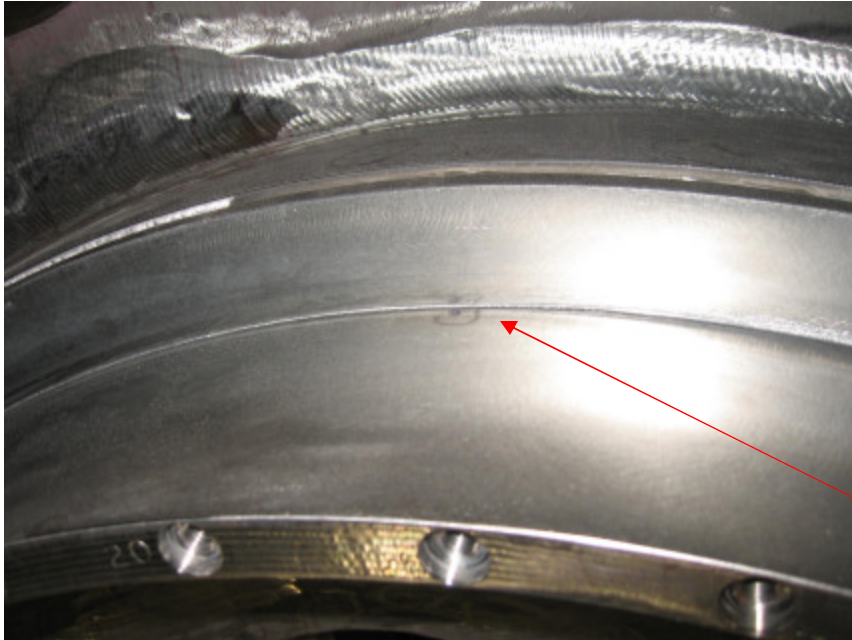
**Major Tool Implemented By:** \_\_\_\_\_ **Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_



**Datum D side**

D2 – D95 has tool marks from ball nose machining that did not clean up a final polish (cross section of T was a .720")

D94 – D96 has a tool gouge that did not clean up on short leg (less than .010" depth)

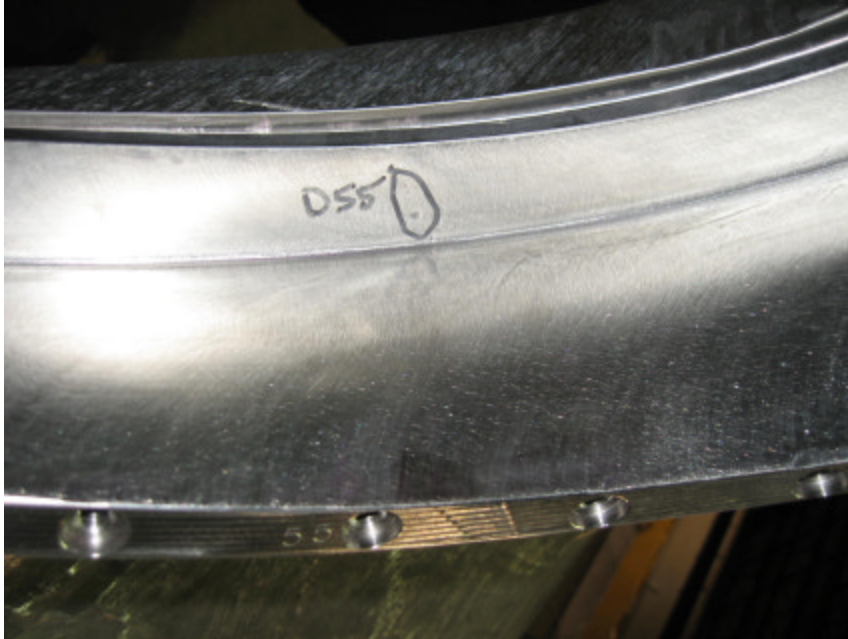


Tool gouge on D side of T  
near hole 19. Gouge is  
approximately  $\text{Ø}.125 \times .03''$   
deep.



Tool marks on short leg of D side near hole 49. Round gouge is approximately .015" deep. The longer tool mark is less than .005" deep.





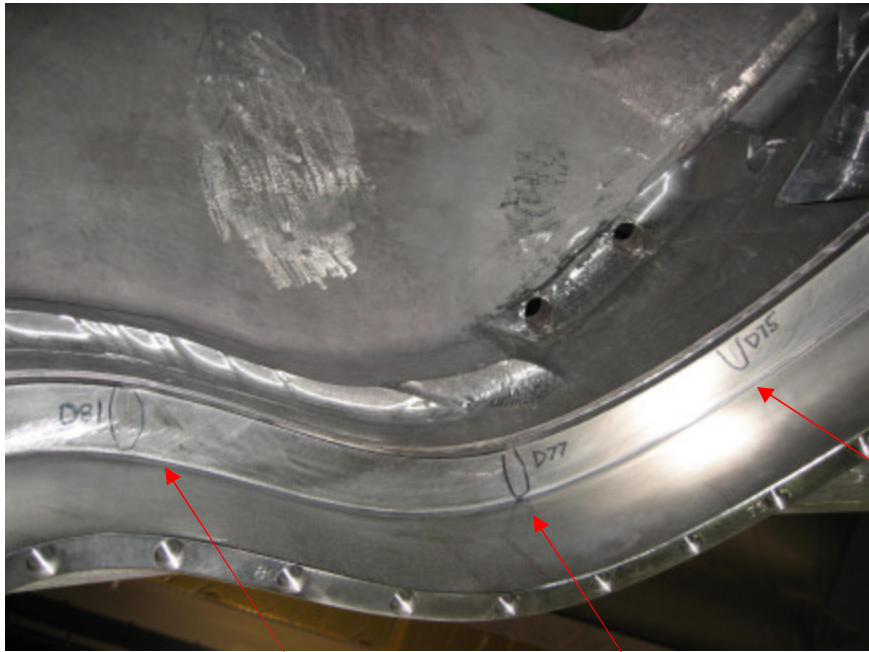
Tool marks on short leg of D side near hole 55. Tool marks are less than .005" deep.



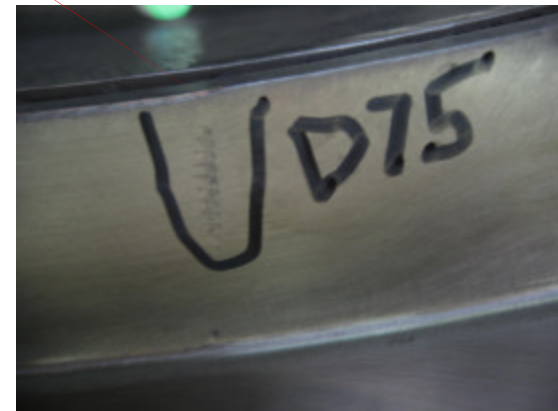


Tool marks on short leg of D side near hole 68. Tool marks are less than .005" deep.





Tool gouges along short leg of D side. All gouges are less than .005" in depth.





Tool gouges on E side  
near T hole 45 and 65  
approximately .005" -  
.010" deep.







The mismatch across  
this area is .020" -  
.025".

Tool marks from ball nose cutter did not clean up on E side between holes 94 and 1. This area is nearly opposite of the area described in slide 1. Tool marks are shallow (<.005") but were not removed due to thickness concerns.

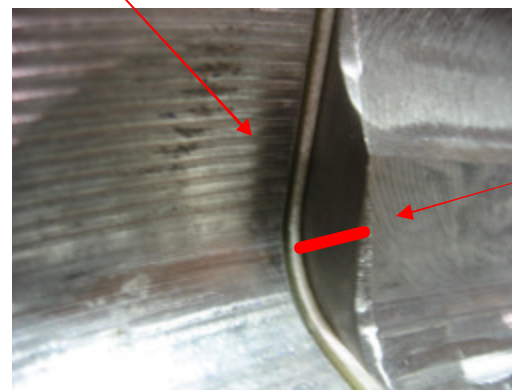
5/8/2007



## NC21792 – C6 Visual Review



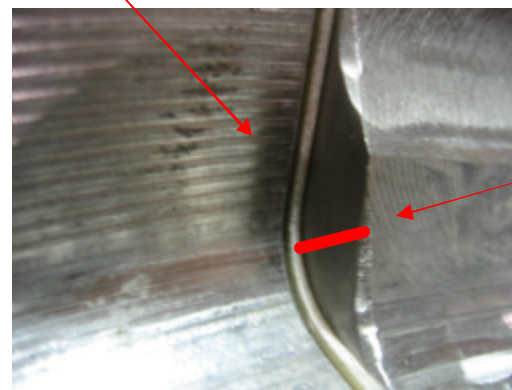
Insulating shim is flush with the poloidal break around its periphery. The area of the casting where the cast wall intersects with the T section was not machined and therefore sticks out beyond the shim (4 places). The picture below shows the area with the maximum amount of stock. This is similar to previous C castings.



Measures approximately .450" diagonally.



Insulating shim is flush with the poloidal break around its periphery. The area of the casting where the cast wall intersects with the T section was not machined and therefore sticks out beyond the shim (4 places). The picture below shows the area with the maximum amount of stock. This is similar to previous C castings.

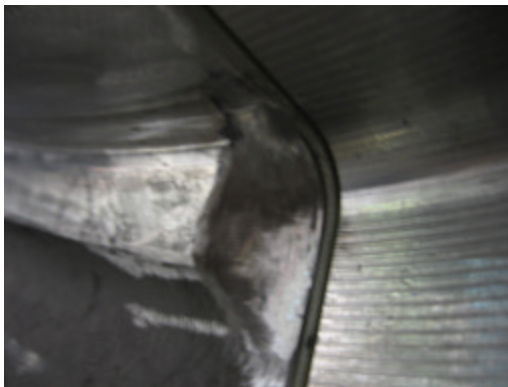
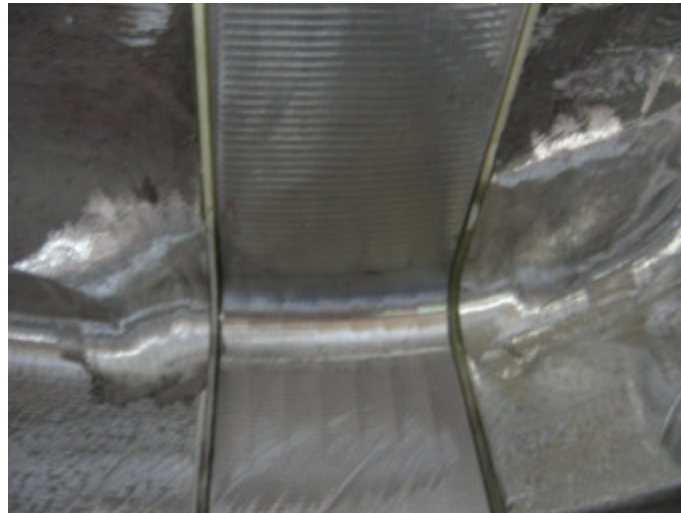
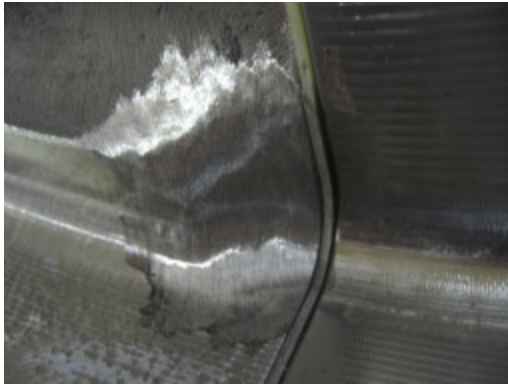


Measures approximately .450" diagonally.



Follow up to NC21792 – C6 Visual Review Slide 9

Cast radius at Poloidal Break has been ground to approx. a 45° angle flush to the surface of the break shim.





## Mapping of Undercuts

### **D Side**

An area on the long leg near radius between holes 84 -87 checks from .010” - .013”

### **E Side**

An area on the long leg near radius between holes 84 -87 checks from .010” - .012”