

12 MHZ RIA Meeting Notes

Subject:

Date: 4/21/05

Attendees: SUSHIL FRANK KEN SCOTT HORST JERRY BRIAN ANDRI MARK

Action Items:

- KEN - REMOVING END DRIFT TUBE IS A PROBLEM BECAUSE OF WARPING AT THE END OF THE TIP
- KEN - MACHINE FLANGE FACE AND SHIM THE TIPS TO FIT IN THE PREVIOUS DESIGN
- 50 MICRON DESIRED BUT BELIEVED NOT ACHIEVABLE WITHOUT SHIMMING AND TWO PIECE DESIGN
- LAST DESIGN CAN IN AROUND 750 MICRON LEVEL
- BOLTING SEQUENCE AND TORQUE COULD SHIFT THE TIP IN ANY DIRECTION
- DESIGN TO BOLT - MEASURE - MACHINE - REPEAT
- END PLATE HAS BEEN MACHINED TO MATCH OLD DESIGN
 - CAN THIS BE REUSED NOW?????
- OLD DESIGN CAN IN TO 1/2 MM ~.030
- SCOPE TARGETS AND ADJUST FLANGE BOLT TORQUE TO FINAL ALIGN ONCE IN VESSEL
- ALL THE ORIGINAL PARTS WERE WARPED?????
- ORIGINAL STRONG BACK WAS EXTRUDED
- TWO PART TIP WITH THE ABILITY TO MACHINE AND SHIM
- MOVING TARGET DOWN THE VANE AND TARGETING TO ALIGN IN THE END
- PN- PUSHERS IN THREE POINTS ON THE END FLANGE TO ALIGN????
- RF LOSS ANALYSIS FOR EXISTING DESIGN????
- REMOVAL OF EXISTING EQUIPMENT NEEDS TO BE COMPLETED BEFORE THE VANES CAN BE EXTRACTED
- KEN - IS WATER COOLING REALLY NEEDED
- SECOND ION PUMP TO BE ADDED TO THE SYSTEM BY SCOTT
- ADD WATER TUBES TO THE BOLTING SECTION
 - WELD / BRAZE ???
- END CONNECTORS WITH LARGER HOLES ARE TO BE USED
- SEND MODEL TO ANDREI FOR USE IN MICROWAVE STUDIO
- MARK TO TRY AND FIND OLD FIXTURES AND ALIGNMENT TOOLS

- PUNCH LIST

- VISHY TO DO FEA FOR DEFLECTION
- WELD STRONG BACK TO FLANGE BEFORE ASSEMBLY
 - OPTION TO SEE IF CAN BE DONE
- IS WATER COOLING REALLY NECESSARY.....FIRST
 - REUSE OLD IF NOT NEEDED
- MAYBE MIDDLE ALIGNMENT FLANGE INSTEAD OF 1 LARGE FLANGE
- IS COPPER PLATING STILL NEEDED IF ORIGINAL IS NOT PLATED JUST PLAIN ALUM.
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