**Overview**

On April 30, 2014, a meeting was held at Boeing’s Renton Facility (Building 4-42, CAMS meeting Room) to discuss possible activities at the 2014 IMTS show in Chicago

**Attendees:**

David Odendahl (Boeing)

Sid Venkatesh (Boeing)

Martin Hardwick (STEP Tools and RPI)

Brian Sides (Okuma)

Jim Kismala (Okuma)

Rod Tojdowski (Okuma)

Michael Olejniczak (Advanced Machine Solutions)

Wayne Myers (Gosiger)

Mark Goerlich (Gosiger)

Mike Garver (Gosiger)

Mike Standridge (Sandvik)

**Agreements**

* Boeing, OMAC, Sandvik, and Okuma will participate in STEP-NC Machining Demonstrations during IMTS 2014
* Boeing will provide 15 stock blanks to Okuma (without mounting holes) for development/demonstration purposes (Sid will provide.. Need commitment date)
* Boeing will send existing Sandvik cutters to Okuma for testing/development ( Sid will provide.. need commitment date)
* Boeing will see if a more “Aerospacy” part can be developed/ programmed to replace Moldy (Answer: No, we are stuck with moldy)
* Okuma will provide Machine/Operator/Presentation infrastructure, including large monitor
* Boeing/OMAC will provide pitchman
* Moldy machining will only take place at Okuma booth
* Other STEP/OMAC activities may take place at other booths
* Sandvik will provide optimized machining process for new Okuma machine (Millac 561V)
* Demonstrations will occur once per day
* Demonstration target duration is 15 minutes
* Followups will occur in booth after meeting and during sessions
* Martin Hardwick will attend demonstrations
* Integration of STEP-NC Explorer and Thinc control will be part of demonstration
  + Who will verify that Explorer will run
* David will be the data source for machining processes.. This mimics a real-world situation
* Automatic loading, generation, and staging of M and G codes from Explorer will be attempted
* Mapping of in-process data (spindle load, tolerances, HP, vibration, etc) to high-level process definition MAY be attempted
* Mapping of in-process probe data to high-level process definition will not be attempted in 2014
* Use of STEP-NC as definition source for collision detection will not be attempted in 2014

**Questions**

* Should we continue with Moldy machining in Renton on other features?
* Will Iscar provide tools/support for test?
* When should meeting sessions be scheduled?
* Who will verify that Explorer will run smoothly on Thinc Control?
* How do we respond to someone who says “I’ll take it”
* How do we integrate with presentation sessions
* How do we get “bonus” publicity
* How should MT Connect be involved?

**Action Items**

* Martin to assist Okuma in loading STEP-NC Explorer
* Okuma to provide machine model to Martin for simulation
* Communication between Okuma and STEP-Tools for automatic loading, generation and staging (click reduction)
* Decide/develop mapping of in-process data to high-level process information (STEP Tools and Okuma)
* David to discuss Okuma CNC issues with equipment engineers