**APC Project meeting – March 15, 2013**

Teleconference call: 1:00 – 2:00 pm

**Agenda**:

* Overview of APC project:
* Mechanical testing of sheet materials (DP600, TRIP780, AA5182-O:
  + Waterloo: tensile testing at different strain rates; status of EM ring expansion test (Task 1.2)
  + Windsor: rolling to the onset of fracture, quasi-static tensile testing
  + CANMET: hydraulic bulge tests, Nakazima tests to determine FLC
* Metallurgical characterization of materials (Task 1.6)
* Amino industrial trials (full scale dash panels) Tentative schedule
  + Modifications to the die and the process (Task 3.2) In progress
  + Sequential hydromechanical – EHF process (Task 3.3) April/May 2013
  + Hybrid hydromechanical – EHF process (Task 7.3) 2014
  + Surface characterization of as-received sheets – Suppliers/Windsor (Task 1.4)
* Lab-scale EHF trials at Ford - (Task 4)
  + 34° Cone, plane strain, Free-form FLC
* Numerical simulations – (Task 2)
  + EHF in 34° Cone, plane strain, Free-form FLC, using Eulerian mesh for the water and Lagrangian mesh for the sheet material
  + Cold rolling to predict stress triaxiality at the onset of fracture
  + Modelling material deformation (very early stages):
* APC progress report due March 22
* Novelis’ involvement after Summer 2013
* Other agenda items