

**TO:** P. Heitzenroeder  
**FROM:** L. Dudek

**SUBJECT:** WBS 1431 Modular Coil Interface Hardware

*Date: August 11, 2008*

**Scope**

This job covers the procurement of the hardware used to connect the modular coils. These materials consist of the stud kits, G-10 and metal core shims, alumina coated shims, shear plates and puck materials. Also included the procurement of the inflatable FEP wing support bladders.

**Status**

All of the stud kits for all 18 modular coils have been purchased except for approximately 40 new studs for the new holes on the inboard edge of the C to C joint. All of the metal cores for the first field period assembly have been purchased. New procurements for the shims on the remaining two Field Periods and the alumina coated shims for the C to C joint need to be initiated.

**Interfaces**

No physical interfaces are required for the procurement work.

**Specifications**

None

**Schematics and PIDs**

None

**Models**

None

**Drawings**

None

**Analyses**

None

**Testing**

Only receiving inspection and testing as required by the CSPECs provided from Engineering.

**Costs**

No Pending cost updates

**Remaining Work**

Procurement of the alumina shims for the C-C joints and 40 stud kits mentioned above.

**Lessons Learned:**

When obtaining budgetary quotes and guidance from vendors regarding capability the specific requirements, more importantly the combination of requirements must be considered when generating estimates. For example the vendor asked for guidance on alumina coatings assured us that a tolerance of  $\pm 0.001$ " alumina film thickness was easily achievable. However when combined with our film thickness requirement of 0.025" thick he was unable to achieve the quoted tolerance.

**Conclusion:**

The alumina coating is still the most significant challenge to the remaining procurements. The vendor qualified (White Engineering) was late in delivering sample runs. Suggest trying to qualify another vendor (Praxair) which would help insure a timely delivery of the alumina coated shims for the C to C joints.