

**FLORIDA STATE UNIVERSITY
PURCHASING DEPARTMENT
A1400 UNIVERSITY CENTER
TALLAHASSEE FL 32306-2370**

ADDENDUM ACKNOWLEDGMENT FORM

DATE: August 21, 2009

ADDENDUM NO .4 Competitive Solicitation Number ITN 5340-3

TITLE: Helium Refrigerator for Series Connected Hybrid at NHMFL

INSTRUCTIONS TO RESPONDERS:

Attached is additional information pertaining to the Competitive Solicitation. Please read this information carefully and incorporate it into the terms, conditions and specifications submitted with the original solicitation and any prior addendum's. **This cover sheet must be signed by the individual signing the solicitation and returned with this solicitation.**

CERTIFICATION:

This is to certify that I did receive the referenced addendum and have incorporated the terms, conditions, and specifications listed therein into the attached Competitive Solicitation.

SIGNED

TITLE OF ABOVE

ADDENDUM IV

Question:

Paragraph 2.5.6.1 specifies gas bearing turbine expanders for the coldbox. Would an alternate oil bearing turbine expanders based on extremely lower price, shorter delivery and proven reliability in commercial helium liquefaction applications with over 20,000 continuous operation with no service requirement? These turbines are manufactured in the United States by two large companies, Air Products & Chemical Co. and GE Rotoflow.

Answer:

The turbines with gas bearing are required.

If the vendor uses oil bearing, they should give at least three users of such kind of turbines, which are used between 10 K and 60 K with helium as the working fluid, to prove the technology is mature in helium cryogenic system.