



May 29, 2008

NCSX Station 3
Lift Review

Job No. 5631

Mr. H. Allen Wrigley
Princeton Site Office
Office of Science
U.S. Department of Energy
P.O. Box 102
Princeton, New Jersey 08542

Dear Mr. Wrigley:

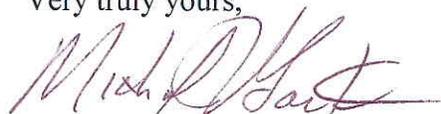
In accordance with Collins Engineers, Inc., (Collins), Consulting Agreement with SPAAN Tech, Inc., Collins has conducted a review of Lift Procedure D-L-NCSX-1000, Assembled Modular Coils Lift Procedure as provided by the Princeton Site Office. This procedure covers horizontal transport of two coil units via a crane hook suspended wedge support, and the rotation of a three coil unit (3-pack) while suspended from a crane supported hoist beam. We have reviewed the Lift Procedure, lifting apparatus component type and configuration, and the design of the 3-pack hoist beams. Based upon our review, it is our professional opinion that the proposed Lift Procedure and equipment configuration will perform as intended and that the lift apparatus has sufficient capacity to safely perform the lift and rotation.

In performing our review, the following items are noted:

- The hoist beam design for the 3-pack lift was reviewed based upon ASME BTH-1-2005, Design of Below-the-Hook Lifting Devices. Our independent check of the hoist beam design confirms that it can carry the 17 ton design load specified.
- It is suggested that additional labels be placed on Lift Procedure No. D-L-NCSX-1000 Sheet 2 to identify the inner and outer chain hoists, coil designations, and coil flange designations.
- Collins has assumed that the supporting wedge design is adequate.

Review of the Station 3 Lift Fixture is in process and will be completed by June 6, 2008.
Should there be any questions regarding our review, please call.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Michael J. Garlich". The signature is fluid and cursive, with a long horizontal stroke at the end.

Michael J. Garlich, P.E., S.E.

MJG:jaf

cc: George Gartrell

Michael Viola