

Memo

To: Vendors responding to Fermilab request for quote 230248RE Rev #1
From: Andrew Sonnenschein,
COUPP Project Manager
Fermilab
Subject: Sources for Outokumpu stainless steel
Date: Nov. 22, 2011

Section 5 of our specifications (“Fermilab Pressure Vessel Specification: COUPP Outer Vessel”) requires that all steel used be alloy 316L from a specific supplier, Outokumpu Stainless, Inc. The requirement is based on R&D demonstrating that this material has unusually low levels of trace Uranium compared to typical stainless steel alloys (less than 1 part per billion).

Minimum order quantities directly from Outokumpu are very large. I made some phone calls to check on the availability of small quantities of their material from warehouse distributors. I can suggest the following sources of Outokumpu steel based on phone conversations indicating that material is currently in stock and can be delivered in a quantity appropriate for building our vessel:

Rolled Alloys (www.rolledalloys.com)

Plates of Outokumpu 316L are in stock up to at least 4.5 inches thick, appropriate for fabrication of the large ASME 300# flange.

Tachen 847-816-6775

Schedule 80 x 24 inch OD (1.218 wall) pipe in stock.

I also found vendors able to produce ASME flanges and dished heads from plate material in single piece quantities, with short lead times. For example, Texas Flange (John Barnett 800-826-3801) and Trinity Heads (800-392-3594).