



Contribution ID: 409

Type: **Contributed Oral Presentation**

Large 'pulse-tube' oxygen liquefier for CVN-78 carriers: an update

Tuesday, June 30, 2015 11:30 AM (15 minutes)

Several years ago, we reported on a 50-gallon-per-day oxygen liquefier that uses Stirling-type pulse-tube coldheads driven by a large flexure-bearing pressure wave generator (PWG), in development for the new generation of U.S. Navy aircraft carriers. The first of these liquefiers is about to be deployed on the USS Gerald R. Ford. This presentation describes the completion and performance testing of the core cryocooler, and some of the balance-of-systems challenges encountered.

Primary author: Dr SPOOR, Philip (Chart Industries)

Presenter: Dr SPOOR, Philip (Chart Industries)

Session Classification: C2OrB - Large Capacity Coolers

Track Classification: CEC-03 - Cryocoolers (Non-Aerospace)