



KLINGE CORPORATION

Klinge Corporation awarded SafeCore and LARISSA Refrigerated Containers and contract with Raytheon Polar Services Company

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Klinge Corporation has been awarded a contract with Raytheon Polar Services Company, under a contract with the United States Antarctic Program (funded by the National Science Foundation), to design and produce 100% redundant 40' Refrigerated Container Systems and 20' Refrigerated Container Systems in 2009 that are able to function at extremely low temperatures. The Container Systems will be used to store, protect, and transport ice core samples within a required temperature range so that the data contained within them is preserved. These ice cores will be harvested in Antarctica and transported to the United States where they will be used to reconstruct a detailed climate record extending over hundreds of thousands of years.



Klinge Corporation's Engineering Department will design the redundant 40' Refrigerated Container Systems, which will consist of primary and backup refrigeration systems (Klinge model NMR-872) as well as primary and backup integral generator sets (Klinge model NMG-115-11). The 40' Container Systems will maintain the required cargo temperature of -30°C while in ambient temperature conditions of -50°C to $+50^{\circ}\text{C}$. The two refrigeration systems and two generator sets will have an environmentally-friendly double-walled fuel tank

capable of holding enough fuel for three days of continuous generator operation. Additionally, the Container Systems will be automated in operation and allow easy maintenance and replacement of components (including the ability of personnel to operate and service the Refrigerated Containers while wearing large gloves). Furthermore, the Refrigerated Containers will undergo redundancy, operational procedure, and 24 hour temperature acceptance tests that will ensure the systems are capable of transporting the ice cores from McMurdo Station in Antarctica to California and on to Colorado in the USA.



Klinge will also supply redundant 20' Refrigerated Container Systems with primary and backup refrigeration systems and one integral generator set. The 20' Container System will maintain the required cargo temperature of -30°C while in ambient temperature conditions of -30°C to $+50^{\circ}\text{C}$. The design will allow for easy user access and interface with the controls as well as easy cargo

loading/unloading. The 20' Refrigerated Containers will undergo the same testing as the 40' Container Systems to ensure that the systems are capable of transporting the ice cores from Rothera Station in Antarctica to California and on to Ohio in the USA.

About Klinge Corporation:

Klinge is the leading provider of specialized transport refrigeration in the world and is ISO 9001 certified. Founded in 1984, as a spin-off of the Transport Refrigeration Equipment department of York International, Klinge has been actively producing refrigeration units at their manufacturing facilities and headquarters in York, Pennsylvania, USA (with sales offices and workshops in Denmark and Egypt) for 25 years. Since the company's founding, Klinge has focused heavily on research and design and engineering which has cultivated innovative new concepts in the area of specialty transport refrigeration. The company's customized designs offer customers vital options when standard, mass-produced products cannot fulfil their needs.

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*Klinge's Quality Management System
Registered to ISO 9001*