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Assembly and Installation of the Daya Bay Antineutrino Assembly and Installation of the Daya Bay Antineutrino Detectors

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The Daya Bay antineutrino detectors are formed from large, 3 and 4 meter, cylindrical acrylic vessels surrounded by phototubes and an outer stainless steel containment vessel. When filled with liquids the inner detector components are completely inaccessible. The shipping and handling of these fragile, large acrylic vessels has been challenging, as has the establishment of common quality assurance requirements and installation schedules. The assembly sequence is highly structured with survey and leak checking measurements at each assembly step to ensure that assembled detector meets requirements. The assembly and installation of the first pair of Daya Bay antineutrino detectors will be presented.

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