

Structural Crack Repairs of Nuclear Power Plant Unit #1 & #2

STRUCTURE: Reactor Building, Service Building,
& EWS Pump-house

LOCATION: Qinshan, China

PRODUCT USED: Concesive 1360, Concesive 1422

JOB DURATION: From 1999 - 2003

CLIENT: Atomic Energy of Canada Limited
(AECL)/ China Nuclear Energy Co.

AREA: Various lengths and sizes of
cracks and voids.

CONTRACTOR: HuaXing Construction Co.
– local general contractor.



PROJECT DESCRIPTION:

Vector Construction Group provided the following contract items:
Technical Assistance, Materials, and Specialty Equipment.

Technical Assistance included training the local workers in the methods and techniques required for the labour portion of the project, helping the engineering personnel with the selection of most appropriate repair method, selection and specification of specific work methods and details for each individual repair location, quality control assistance for repair activities, and equipment troubleshooting.

Vector supplied all epoxy injection resin, paste, and other job specific consumable articles. Epoxy Injection pumps were rented out throughout the project.

Most of the work consisted of crack repairs, filling honeycombs and voids in concrete structures and behind embedded steel plates. Most of the repairs were of a structural nature. However some of the repairs undertaken have a leak-proofing scope as well. Leak-proofing is of utmost importance for the trouble free commissioning of the reactor building and its annexes.



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