

Alba Aluminum took a decision to completely refurbish their plant which has been operating for the last 30 plus years. The modernization is through changing current rectifiers with new and more efficient that increases their production by 20%. The building surveyed is part of the factory named the power plant, the building is distributed in 10 cells on two levels with a unit basement with cooling galleries. Thorough site investigation were carried out, defining the extent of damages and required rehabilitation works. Actual condition of the bridges were also noted prior to the replacement of the elastomeric bridges.

Freyssinet has been assigned to assess the current structure condition to validate the pathology of concrete through. Half potential system test (to detect corrosion potential). Laboratory testing for extracted cores. Crack mapping and defined methods for repair.

Repairs

Crack Inspection on Walls

Alba Aluminum

Manama - Bahrain



Client

ALBA

Consultant

Contractor

Aluminum Bahrain BSC

Construction

Feb 2012