Determining a strategy for maintaining the integrity of civil and structural assets.

The life of civil and structural assets is normally governed by original design, standards of construction, the environment and the adequacy of maintenance. The failure of civil and structural assets usually occurs as a result of lack of maintenance thereby allowing deterioration over extended periods of time.

**What we offer**

ABB’s civil inspection service is designed to determine the strategy for maintaining the integrity of civil and structural assets where the consequences of failure are unacceptable. ABB’s inspection procedures define the requirements for the examination of structures, bunds and drainage and can be used to form the basis of a maintenance regime and an asset life study.

There is the potential in all building and civil engineering structures for unsafe situations to arise. The deterioration of materials over time is inevitable. ABB’s strategy enables focused schemes of examination to be developed and provides the information to enable the development of maintenance programmes. Many civil and structural assets appear, on a day to day basis, to be in a satisfactory condition however deterioration mechanisms are constantly at work. ABB engineers have extensive experience and ensure schemes of examination are developed focusing at places where deterioration is likely to occur.

Our experienced engineers work with the client to develop and deliver a cost effective inspection regime. As well as developing the inspection strategy, ABB engineers will assist in prioritising and specifying any required remedial works. Our review process, continuously evaluates the suitability of the regime implemented. Great emphasis is placed on the evaluation of our findings, the recommendations and the presentation of the results.

Any remedial actions from the inspection are tracked in the ABB civil inspection database to allow the client to have an up to date overview of any outstanding actions, enabling management control and planning.

The database houses all of the inspection reports, defect remediation, modifications and written schemes of examination. It is also used as a management information tool, scheduling inspections, creating look ahead plans and check for overdue inspections.

Regular reports are issued to the client showing the status of each action and any actions carried out by the client can be uploaded into the civil inspection database to provide comprehensive records for future reviews.

**Benefits**

− Ensuring resources are focused in the right areas
− Provides a basis for a maintenance regime or asset life study
− Identifies a cost effective and suitable inspection regime
− Production losses can be avoided as any potential failures are identified before they occur
− Necessary repairs can be planned and carried out more effectively and cheaply, saving breakdown costs and reactive repairs
− The client will gain confidence in the integrity and availability of the asset. Ensuring that production requirements are met and allowing safe and reliable operation

**Why ABB?**

Our team of experienced specialists with operational heritage will use their experience to make pragmatic technical judgements and offer solutions that are cost effective.
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