# HYDROELECTRIC GENERATING STATION SCROLL TUNNEL

#### **CUSTOMER**

Hydroelectric power station, Alabama, USA

#### APPLICATION DATE

December 2017

#### **APPLICATION SITUATION**

Refurbishment of a Hydro electric Generating Station to allow the facility to be brought back online.

#### **PROBLEM**

The concrete scroll tunnel walls, floor, and ceiling were deteriorating due to many years of operation. Total area to be treated was 9000 ft $^2$ . Belzona 4141 lightweight Magma Build was used to restore the ceilings up to  $2^{\prime\prime}$  thick in areas. The walls and floor were repaired with Belzona 4131. After restoring the concrete, Belzona 5811 barrier coating was used protect the entire area .

## **PRODUCTS**

Belzona 4141 (Magma-Build) Belzona 4131 (Magma-Screed) Belzona 5811 (Immersion Grade)

### **SUBSTRATE**

Concrete

## APPLICATION METHOD

The ceilings were rebuilt with Belzona 4141 in accordance with Belzona Know-How System Leaflet WPA-04 and the walls and floor were repaired using Belzona 4131 in accordance with Belzona Know-How System Leaflet WPA-04 and FPA-01.

### **BELZONA FACTS**

The client analysed and tested several materials. The physical and mechanical properties including adhesion testing of the Belzona provided the reassurance the client needed to select Belzona for the repairs and to ensure that they would have the required longevity.

# **PICTURES**

- 1. Concrete deterioration
- 2. Rebuilding concrete with 4131
- 3. Tunnel coated with 5811
- 4. Finished results









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