

Alternator Repairs at Power Station in Antigua harbour



The Project

Following a tropical storm, the generator power station was flooded with approximately 450mm of water. The site engineers shut down the generator power station and switched off the main supply causing a complete power outage throughout the complex.

Client

Caribbean
Developments Antigua

Job No: TGC8201

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CASE STUDY

The Generator Company responded to the emergency call immediately and had an alternator HV specialists on site stripping down the alternators to ascertain the extent of the damage.

Due to the restricted resources available, limited power was restored to the complex by getting the first of the three generators back up and running within 48 hours.

Our diagnosis of the extent of the damage identified that all 3 x 1250kVA, 11 KV main alternators needed to be stripped down, cleaned, tested and rebuilt.

All spare parts, including main bearings, diode kits and specialist tools such as high voltage pressure testing equipment needed for the alternator overhaul, were ordered and shipped from the UK within the first week.

Each alternator in turn was removed from the generator housing, stripped down to major components, cleaned, dried out and tested. The alternator was then rebuilt using the spare parts shipped from the UK and re-tested before installing back in to the generator housing. The complete generator was then re-tested on the system. This process was repeated for the two remaining alternators.

On completion of the project all 3 generators were successfully tested online and complete power was restored.



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