



SUPPLEMENTARY INFORMATION  
TO LER 82-045/01 T-0

Licensee: Mississippi Power & Light Co.  
Facility: Grand Gulf Nuclear Station - Unit 1  
Docket No: 50-416

Tree cutting and pruning was being done in Franklin County, Mississippi as part of a routine program of clearing and maintaining paths for transmission and distribution lines. During this process a worker accidentally felled a tree across a 500 KV transmission line to the Grand Gulf Nuclear Station and was killed. Protective relays tripped the Franklin line due to the electrical fault produced and attempted to transfer power to the 500 KV Baxter Wilson line. However, a failure of the relaying equipment on the Baxter Wilson to Grand Gulf 500 KV line occurred and no transfer was made. Effectively the line was open from Franklin to Baxter Wilson through the Grand Gulf switchyard so that all 500 KV supply was lost. The 115 KV Port Gibson line was available during the entire event.

The emergency diesel generators started and picked up the load. The 500 KV system was restored very shortly thereafter and the diesel generators were paralleled for about 2 hours with the 500 KV line before the diesels were shutdown. The relaying equipment from Grand Gulf to Baxter Wilson was repaired and daily checks have been made to be sure that the relaying equipment remains operable. During the event, power was lost to the Reactor Protection System. This produced a reactor scram signal and the reactor scrammed. After power was restored, the scram was reset and the plant electrical status returned to normal configuration.

The RPS system responded as designed to the loss of power transient. No future corrective action is required or necessary as a result of this event.