Pinion Gear Repair

Gear failed during production. (No spare, EMERGENCY repair)
Disassemble pinion assembly, repair teeth by welding, machine and hand finish teeth; and reassemble.
Pinion Gear Repair

After all the cracks were removed, there were not many teeth left. The base material was analyzed and a weld procedure was produced.
Pinion Gear Repair

All teeth were welded and post weld heat treatment was performed by procedure.

This gear was then machined on the O.D. diameter and faces.
Pinion Gear Repair

This gear was then hand finished using special gauges and templates. Complete inspection showed no defects and tooth location and size almost perfect.
Pinion Gear Repair

On-Site assembly and installation by skilled mechanics.

Alignment was checked.
Tooth engagement was fine tuned and cement kiln was put back into production.