

Project Brief

San Diego County Water Authority Emergency Pipe Repair



San Diego, CA, USA
2005



Three separate emergency repairs have been completed on two separate pipelines owned and operated by the SDCWA. The projects all involved a full structural repair of existing PCCP. The existing pipes varied from 84" to 96" I.D., with static internal pressures of up to 372 psi. Each section to be repaired was 20-feet long. In some cases there were two, 20-foot long spools to be repaired.

In all cases the pipeline was only able to be shutdown for approximately 120 hours. The existing conditions and access varied from good to poor. One of the sections had groundwater flowing into the pipe through a tear in the steel lining. Some access holes were several hundred feet away from the section to be repaired. One of the existing sections was directly under an environmentally sensitive river.

The design and installation team was typically notified only 24 hours before the shutdown. Crews were able to mobilize and setup in time for the shutdown. Typical schedules, including surface preparation, wrapping to the design thickness, finishing with thickened epoxy and de-mobilizing were completed in 72 hours or less.

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