



Dissolving Tank Beam Repair

Halsey, Oregon

As part of concrete investigations, our office discovered that a concrete beam supporting the floor over the dissolving tank was severely damaged. After review of the process and location, sulfate attack and physical damage from explosion ports were suspected as likely culprits. Dust samples were taken and analyzed to confirm our suspicion. With the beam tight to smelt spouts on the north side, 18" from the stack on the south side and 8" above the dissolving tank framing, this was going to prove to be a difficult place to work. The project would have to be implemented during a 7-day shutdown with other activities happening within the tank below and on the floor above. After analysis of multiple options, it was decided to add a second beam adjacent to the existing beam. This beam was designed to carry 100% of the loads and was post-tensioned to move existing loads out of the old beam and into the new beam. The project was implemented on time and under budget while not impacting adjacent shutdown activities.



Facility Type:
Industrial

Client:
Cascade Pacific Pulp

STRUCTURAL | FACILITIES

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