



Salem Lateral Pipeline Project

SALEM & BEVERLY, MA

This project provided marine construction support to approximately 1.2 miles of a new 12" lateral gas pipeline tapping off an existing 36" gas transmission line in Salem Harbor in support of a new a 674-megawatt natural gas-fired electric generating facility. Marine construction included support of horizontal direct drilling (HDD), a temporary cofferdam to support confined subsea excavation, a subsea hot-tap of a live 36" gas pipeline, installation of subsea access vaults, protective measures for the installed hot-tap, engineered backfilling and environmental mitigation. All work executed in a highly sensitive marine environment with a 9' tide fluctuation with high currents and extensive commercial and recreational vessel traffic.

PROJECT HIGHLIGHTS

- Cashman's role in the project included the design and execution of all excavation, pipeline installation support (via HDD), hot-tapping, spool installations, tie-in protective measures and backfilling, including all required support of excavation and environmental control measures.
- Cashman designed and installed a 85' x 55' cofferdam, straddling the existing & in-use gas pipeline, with entry and exit windows for the lateral pipeline and to allow water to freely flow (during tidal cycles) while containing suspended sediments during construction activities.
- Approximately 1,500 yd³ of sediment were carefully excavated from within the cofferdam and around the existing pipeline, and placed in hopper barges for temporary storage/decanting.
- Cashman provided all marine elements in support of the horizontal direct drilling of the new lateral pipeline/hot tap location to shore.
- Cashman, via subcontracted diving services, successfully executed the hot-tap, tie-in spool fabrication and installations and installation of protective concrete vault.
- Cashman then extracted the cofferdam/support of excavation measures and returned the seafloor to it's previous natural state with the pipeline tie-in assembly safely buried below 6' of cover.

Location:	Salem and Beverly, MA
Contractor:	Jay Cashman, Inc.
Contract Dates:	May – Nov. 2016
Dollar Value:	\$12.5 Million
Client:	US Pipelines
Awarding Authority / Owner:	Spectra Energy / Algonquin Gas

