

## Honeywell Fire and Gas Solutions Provide Proactive Monitoring at Turkey's BTC Pipeline



“Honeywell was able to improve the basic design that we provided to them and prepared detailed engineering drawings, supplied the material, provided installation and supervision, and completed the commissioning, startup and training at the BTC pipeline Ceyhan marine terminal. We are very satisfied with Honeywell's fire and gas detection solutions and look forward to working with them on future projects.”

Cenk Sezer, Project Leader, Tekfen Construction & Installation Co., Inc.

### Benefits

The BTC pipeline project in Turkey plays a critical role in the transportation of oil to the world from Azerbaijan through Georgia and Turkey, helping position Turkey as a strategically important energy bridge. A consortium of 11 oil and gas companies oversees the BTC pipeline in Ceyhan with Tekfen Construction & Installation Co. acting as the main contractor of the project. At more than 1,700 kilometers, the BTC pipeline is the second longest pipeline in the world.

The Ceyhan terminal has been operational for four years but lacked a fire and gas system. After reviewing several suppliers, Tekfen selected Honeywell's fire and gas detection solutions to provide the proactive monitoring and operational response needed for emergency situations. Honeywell's Integrated Main Automation Contractor (I-MAC) approach for fire and gas solutions provided Tekfen a comprehensive solution for protecting its critical infrastructure.

Other benefits realized from implementing Honeywell's integrated fire, gas, safety and security solutions include:

- Increased reliability and improved safety through Honeywell's Safety Manager
- Proactive monitoring provided a fast, accurate way for notification of potential issues
- Integration with Honeywell's Experion® Process Knowledge System (PKS) and a central control room provided ability to monitor all field information in one central system
- Fire and gas system performed actions to protect plant and mitigate damages that may occur caused by various hazards
- Met compliance standards while optimizing operational performance and lifecycle sustainability



Tekfen improves control and proactive monitoring at the BTC pipeline Ceyhan marine terminal with Honeywell fire and gas detection solutions.

### Background

Tekfen Construction and Installation Co., Inc., a leading organization in contracting activities and a studious environmentalist, traces its roots to an engineering consulting company established in 1956. An uncompromising dedication to global quality standards in its business conduct has underscored the company's consistent growth and stability over five decades.

Presently, Tekfen Construction and Installation Co., Inc., as an affiliate of Tekfen Holding Co., Inc., is an international contractor with major accomplishments in Turkey, the Middle East, North Africa, Central Asia, and Eastern and Central Europe. Its wide span of activities ranges from refineries and petrochemical plants to pipelines and power plants.

With its sister companies and strategic partnerships, Tekfen is capable of extending its services to a large number of clients worldwide. As an ISO 9001:2000, ISO 14001:2004 and OHSAS 18001:1999 certified company, Tekfen is dedicated to higher quality standards and excellence through continual improvement and teamwork.

### Challenge

Although the Ceyhan marine terminal had been operational for more than four years, the BTC pipeline site had been without a proactive fire and gas system.

"It was time to investigate any next-generation fire and gas solutions that could alert our employees in a reliable, accurate and quick manner by providing the information and needed time to perform any necessary actions to protect our site," said Cenk Sezer, Project Leader, Tekfen.

### Solution

After investigating several global companies that could provide Tekfen with the most robust fire and gas solutions, the company selected Honeywell and a variety of its solutions to implement at the Ceyhan marine terminal.

Products implemented from Honeywell include fire and gas system and services with open path gas detectors, as well as closed-circuit television (CCTV) flame detectors to cover the tank farm, metering and jetty areas at the Ceyhan terminal.

### More Information

For more information on Honeywell safety and security solutions, visit [www.honeywell.com/ps](http://www.honeywell.com/ps) or contact your Honeywell account manager.

### Automation & Control Solutions

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Honeywell's Experion® Process Knowledge System (PKS) will also be installed in the terminal's central control room and used to monitor all aspects of the system including alarming and video recording. In addition, the new fire and gas detection system will be fully integrated with existing automation systems on the BTC pipeline, further increasing plant safety by providing operators with full insight into all gas levels and flame detection enabling better decision making.

Honeywell's proven experience as an Integrated Main Automation Contractor provided Tekfen with the ability to meet critical infrastructure protection needs while ensuring business readiness at project startup.

"Honeywell met our needs and delivered the lowest risk and highest value for our site," said Sezer. "We now have control over the entire process and the ability to proactively monitor any situation that may arise."

After the installation and startup of the Honeywell fire and gas system, any flame occurrence or gas leakage could be monitored by the system and simplify the user's requirements to control the entire process despite location or transport needed.

Honeywell offers an integrated solution with lifecycle protection incorporating both safety and security to minimize the impact of any abnormal situations that may occur. Fire and gas systems are part of Honeywell's layered safety solution to help achieve business and safety objectives to maximize a site's profitability while protecting people, assets and the environment.

"We really appreciated Honeywell's holistic and people-driven approach to provide the best solution for this project," said Sezer. "Their accessibility and quick responses and full attention to this project provided the confidence and support we needed and enabled the team to mobilize and make the schedule and scope of work successful."

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