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## THE SAFETY AND ENVIRONMENTAL PERFORMANCE OF THE WORLD'S LONGEST SOUR GAS PIPELINE

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Located in the southwest of IRAN, the Iran Gas Trunkline-5 (IGAT-5) with 504 kilometers in length and 56 inches in diameter is the longest sour gas pipeline among those developed in world so-far. Sour gas is more dangerous than sweet gas because of its hydrogen sulfide contents, so it requires more safety considerations. The safety aspects of long pipelines for transportation of sour gas have been always of concern because of the potential populated area, high pressure and presence of toxic compounds of pipelines. Environmental harm, neighborhood destruction, serious injury and death. As a result, pipeline safety regulations have been established that govern how the pipeline industry designs, builds, operates, and maintains pipelines. Sour gas pipeline pigging operation is a highly risk work. The pipeline pigs may be stuck, lead to leakage accident, and even lead to

fire and explosive hazard. This pipeline with the containment of approximately 6000 ppm hydrogen sulfide in the most unique sour gas pipeline in the world. In order of operation improvement and precision maintenance it must consistently follow the safety rules and regulations. This study examines a set of safety rules and environmental measures that have brought about the optimal performance of the pipelines, and we express what measures we have functionally taken and put into place since the start of the operation of this pipeline(2008). We are pleased to announce that so far there has not been any harmful or any disastrous occurrence in terms of safety and environmental performance.

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