N. ELIAV Infrastructure & Corrosion Engineering Ltd

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NATURAL GAS PROJECT LINE TO GAZA

24" PIPELINE CATHODIC PROTECTION DESIGN REPORT

2023-THL-ECP-REP-002
Version A

Client:

ISRAEL NATURAL GAS LINES LTD

Main Designer:

TMNG (member of TAHAL Groupe)

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Versions

A	02.08.2020	Issued for comments	Noam Eliav		Inon Shani		E.T.	
Rev.	***Date***	***Description***	Name	Sign	Name	Sign	Name	Sign
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Changes since the previous version

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C O N T E N T S

1. Summary

Israel Natural Gas Lines LTD (INGL) is planning a new 24" high pressure natural gas pipeline from Eshel Hanasi Valve Station to Gaza strip.

This document shows that the design 24" pipeline from Eshel Hanasi Valve Station to Gaza strip border can be cathodically protected by current from a new Impressed Current Cathodic Protection (ICCP) system in Urim station.

This document also shows that the design 24" pipeline section for crossing the Israeli/Gaza border (of which will be isolated in both sides of the border) can be cathodically protected by current from a new Sacrificial Anode Cathodic Protection (SACP) system.

This document contained the technical requirements for construction and maintenance of the cathodic protection system in order to assure the corrosion protection, the efficiency and the safe condition of the 24” high pressure natural gas pipeline.

2. Scope

This document covers the general layout design of the temporary and permanent Cathodic Protection (CP) systems required to protect the pipeline and station piping against corrosion.