Statement No.: 46152200

DET NORSKE VERITAS

STATEMENT OF COMPLIANCE

NAME OF OWNER:	East Gas Company
NAME OF SYSTEM:	Gulf of Aqaba Crossing Pipeline System
LOCATION:	Gulf of Aqaba
DESCRIPTION:	The Gulf of Aqaba Crossing Pipeline System consist of a 15 km 36" SAWL carbon steel pipeline, expansion spools, insulation joints and anchor blocks. The pipeline system connects onto the onshore pipeline system in El-Arish on the Egyptian side and El-Aqaba on the Jordanian side. The battery limits for the system are at the isolation joint location on both sides.
OPERATIONAL LIMITATIONS:	PRESSURE: 100 bar @ MSL TEMPERATURE: 0 to 23 °C SERVICE: Dry Gas
THIS IS TO STATE THAT:	The above mentioned pipeline system has been verified by appropriate methods, to comply with the requirements of the DNV Offshore Standard OS-F101 Submarine Pipeline Systems 2000, for the operational limits stated above, with the exceptions and conditions noted in DNV documents: Gulf of Aqaba Crossing Project - Verification Report, Doc. No. 46152200-02, rev. 01.
VERIFICATION INVOLVEMENT:	The verification of the above mentioned pipeline system has been performed in accordance with DNV Offshore Service Specification OSS-301 Certification and Verification of Pipelines – 2000, at Level "Medium" with the detailed scope of work described in the above referenced DNV Verification Report. This verification level has been accepted by DNV to be satisfactory for the risk to the integrity of the pipeline identified for the above mentioned system.
REFERENCE DOCUMENTS:	DNV Document: Gulf of Aqaba Crossing Project - Verification Report, Doc. No. 45152200-02, rev. 01.

PLACE: Aberdeen DATE: 23rd June 2003

Project Manager

2 SYSTEM DESCRIPTION

2.1 General

The project shall consist of the installation of NPS 36 pipeline from El Arish Terminal to Taba Area. The NPS 36 pipeline is intended to be built with associated scraper traps and intermediate sectionalizing line valves facilities, i.e.:

- Launching scraper trap at Arish Station (Area 100).
- One intermediate receiving & launching scraper trap station (STS) at KP-125 (Area 200).
- Receiving STS at Taba Area (Area 300).
- Intermediate sectionalizing line valves shall be located along the pipeline rout (Area 150 & Area 250), in distance as defined in ASME B 31.8 and Risk Assessment Study.

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2.2 Arish STS (Area 100)

The STS located in El-Arish, shall be provided with the following process and utility systems:

a) Tie-in to Interstinal pipeline;
b) Launching scraper trap facilities (NPS 36);
c) Venting system;
d) Local drain pit if any;
e) Cathodic protection system;
f) Field Instruments and a Shutdown Valve.

2.3 NPS 36 Gas Pipeline from El-Arish Terminal to Taba Area

The pipeline shall connect El-Arish STS with the STS in the vicinity of Taba.

The pipeline, approximately 250-km long, shall be carbon steel, API Spec. 5L Grade X65, with wall thickness varying from 15.9 mm to 19.0 mm.

The external coating system of pipeline shall be Extruded Polyethylene (Three Layers System), according to DIN 30670.

The pipeline system shall be installed underground in a proper trench as shown in the route maps drawings Number 2716-200-PLE-001 through 025.

NPS 36 Gas Pipeline Midpoint Scraper Trap Station (Area 200)

The foreseen Midpoint receiving and launching STS will be located approximately at KP-125 from the launching trap at El-Arish, and shall be provided with the following process and utility systems:

a) Receiving scraper trap facilities (NPS 36);

b) Launching scraper trap facilities (NPS 36);

c) Venting system;

d) Local drain pit if any;

e) Cathodic protection system;

f) Field Instruments.

2.5 **NPS 36 Gas Pipeline Receiving Scraper Trap Station at Taba Area (Area 300)**

The planned STS at Taba will be located in a suitable area and shall be provided with the following process and utility systems:

a) Receiving scraper trap facilities (NPS 36);

b) Venting system;

c) Local drain pit;

d) Cathodic protection system;

e) Field Instruments and a Shutdown Valve.

2.6 **NPS 36 Gas Pipeline Intermediate Sectionalizing Valve Stations**

Sectionalizing Valves shall be installed in the pipeline to allow the isolation of pipeline segments in case of emergency or for pipeline maintenance.

2 Sectionalizing Valves shall be located along the pipeline route, in distance as defined in ASME B 31.8 and Risk Assessment Study. Pig signaller shall be located upstream of each valve station.

Each valve station shall have two by-pass block valves, and one vent valve.

The vent valve station shall be connected to a pipe with a vent stack, which is in a distance of 132m from the sectionalizing valve.

Sectionalizing valves shall be with extended stems and the bodies shall be buried.

3 CODES AND STANDARDS

The design activities for the pipeline, scraper traps, line valve stations and any other project facility shall be carried out according to the following codes and shall comply with the applicable Egyptian laws and regulations.

Pipeline and Piping Codes and Standards:

The design of the onshore pipeline shall, as a minimum, meet the requirements of ASME B31.8 and B31.3, which shall both be considered as the governing design codes. The following codes and standards may also be used for the design work of the new 36" onshore pipeline between El-Arish and Taba.

ASME B 31.3	Process Piping System
ASME B.31.8	Gas Transmission and Distribution Pipeline System
ASME/ANSI B16.5	Pipe Flanged and Flanged Fittings, 1996
ASME/ANSI B16.47	Large diameter steel flanges, 1996.
ASME B16.20	Metallic Gaskets for Pipe Flanges
ASTM A105	forged Carbon Steel
ASTM A694	Forging, Carbon Steel and Alloy Steel for Pipe Flanges
MSS-SP 75	Specification for High Test Wrought Buttwelding Fittings
DIN 30670	Polyethylene Sheathing of Steel Pipes
API 5L	Specification for line pipe
API 6D	Line Pipe Valves
API 598	Valve Inspection and Testing
API 6FA	Fire Test for Valves

Instrumentation Codes and Standards:

Instrumentation shall generally conform to the following international Codes and Standards (Detailed as per Enppi Specification No. 2716-200-200-2.):

ANSI	American National Standard Institute
API	American Petroleum Institute
ASME	American Society of Mechanical Engineers
BASEEFA	Instruments Certification
CENELEC	Instruments Certification
IEC	Electrostatic Susceptibility of Electronic Components
ISO	International Standard Organisation
NEMA	Enclosures for Industrial Control Systems
NFPA	National Fire Protection Association.

Cathodic Protection Codes and Standards:

BS 7361 Part 1	British Standard Institution (BSI) Cathodic Protection Code of Practice for Land and Marine Applications
NACE	National Association of Corrosion Engineers
IEC	International Electrotechnical Commission

Jordanian Egyptian Fajr
For Natural Gas Transmission and Supply Co. ltd

شـــركة فـجر الأردنيـــة المـــصرية
لنقـــل وتوريـــــد الغـــاز الطبيعي (ذ.م.م)

صادر رقم : JEF-OP-AS-1348-07 REF. # :

التاريخ: ٢٠٠٧/١٠/٣١
31/10/'07

TO: MOHAMMAD NATHWAN

السيد المهندس / محمد نشوان
المدير الفني
الشركة الأردنية للإستشارات المناخية

الموضوع: طلب معلومات حول انبعاث الغازات
SUBJECT: REQUEST FOR INFORMATION REGARDING GAS EMISSIONS.

تحية طيبة وبعد ،،

بالإشارة لكتابكم رقم ٢٢/١/٩ بتاريخ ٢٠٠٧/٩/٤ ولاحقاً للإجتمـــاع مـــع ســـيادتكم بتـــاريخ ٢٠٠٧/١٠/٢٩ بخصوص الموضوع عاليه ، نرجو التكرم بالإحاطة بأن الكود المستخدم في تصميم وإنشاء وتشغيل خط الغاز العربي هو ASMI B31.8 و بإشراف شركة تراكتبل الهندســـية Tractable وهـــي المستشار الفني الذي تم تعيينه من قبل وزارة الطاقة والثروة المعدنية.

وتفضلوا بقبول فائق الإحترام ،،،،

مساعد رئيس الشركة للعمليات
مهندس/ مطاوع سليمان

ASST. TO G.M.
ENG. M. SULEIMANI

WITH REFERENCE TO YOUR COMMUNICATION/LETTER # 9/1/22 DATED 4/9/'07 AND FOLLOWING THE MEETING WITH YOU (DATE 29/10/'07), AND WITH REFERENCE TO THE SUBJECT ABOVE, BE INFORMED THAT THE CODE USED TO DESIGN & BUILD & OPERATE THE ARABIAN GAS PIPELINE IS ASMI B31.8 UNDER SUPERVISION OF

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١٤ شارع علي الفوزي - الشميساني - عمان - الأردن
الهاتف : ٥٦٨١٦٩٩ - ٥٦٨١٧٩٩ (٩٦٢٦) فاكس : ٥٦٨١٦٢٢ (٩٦٢٦)
ص.ب : ٩٤١٩٨٤ عمان - ١١١٩٤ الأردن
البريد الالكتروني : info@fajr.com.jo

FROM :J.E. FAJR FAX NO. :06962 6 5681622 Oct. 31 2007 01:02PM P1/1

TRACTABLE ENGINEERING (TECH. CONSULTANTS) APPOINTED BY MIN. OF ENERGY & MINERAL RESOURCES