



**HELLENIC GAS
TRANSMISSION
SYSTEM OPERATOR**

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**TECHNICAL JOB
SPECIFICATION**

F7

REVISION 0

DATE 03/06/2011

LIQUEFIED NATURAL GAS PLANTS

**SPILL AND LEAK CONTROL
REQUIREMENTS FOR LNG STORAGE
TANKS**

QUALITY ASSURANCE PAGE

CHANGES LOG

REVISIONS LOG

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REFERENCE DOCUMENTS**ELOT EN 1473**

[Installation and equipment for liquefied natural gas - Design of onshore installations]

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1.0 GENERAL

- 1.1** This specification covers the requirements for a spill and leak control system for an LNG Storage Tank.
- 1.2** Each LNG Storage Tank shall be provided with a spillage collection system for liquid spillages resulting from the rupture of a line or accidental spillage on the tank roof.

2.0 EUROPEAN STANDARDS AND SPECIFICATIONS

- 2.1** Applicable European standards and specifications shall include the following:

ELOT EN 1473

3.0 DESIGN REQUIREMENTS

- 3.1** The tank Contractor shall provide a collection system in accordance with **ELOT EN 1473**. The collection system shall discharge the liquid to grade for disposal into the terminal spill collection system.
- 3.2** The design spill rate shall be the largest flow which could be pumped from any single line on the tank roof. Pumps shall be considered to be delivering at full rated capacity.
- 3.3** The duration of the spill shall be considered to be 10 minutes.
- 3.4** Pipe supports, pump supports, structural steelwork, etc., on the tank roof shall be protected from LNG spillages.
- 3.5** Spill detectors shall be provided on the tank roof to detect the presence of LNG.
- 3.6** The design of the spillage collection system shall be submitted for review by the Owner.